AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 15, 1954



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AMERICAN NURSERYMAN

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. XCIX, No. 8

APRIL 15, 1954

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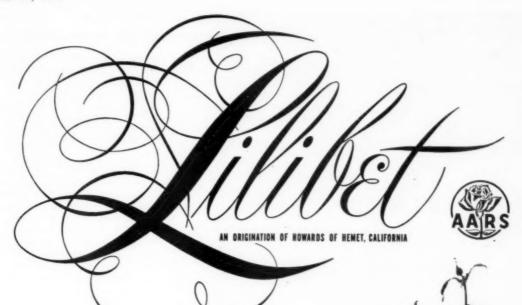
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Forms for the May 1 issue will close Friday, April 16.

Forms for the May 15 issue will close Friday, April 30.

Mail copy to arrive at Chicago by these dates — no later!



All-America Rose Selections
(Floribunda)

1954 Award Winner

We know you'll agree that any rosebush that proves itself superior among the many varieties tested in official A. A. R. S. gardens throughout the United States warrants your stocking and selling.

There's even more reason why you should be stocking and selling Lilibet plants . . . you're selling the finest rosebushes available . . plants that will keep your customers pleased with their vigorous growth and beautiful coral-pink blooms.

You will also be taking advantage of the national publicity given to Lilibet by A. A. R. S. and garden editors everywhere plus our own national advertising campaign in leading garden magazines.

Your customers already know about Lilibet and that adds up to making your selling job easier, faster, and more profitable.

If you have been unable to get sufficient Lilibet plants from your regular wholesale supplier, drop us a note . . . it is possible, at this publication date, we may still have available a limited quantity of good No. 1½ grade Lilibet plants, as well as an excellent assortment of other roses.

HOWARDS of HEMET

"Seasoned Rosebushes"

HEMET - CALIFORNIA



Take advantage of our FREE cooperative advertising material: Full-color LILIBET window banners and newspaper mats (all sizes). Also, we still have a limited supply of natural-color, direct-mail post cards available which we supply at cost (\$10.00 per 1000).

Write Today.

MERICAN NURSERYMAN

F. R. KILNER Editor and Publisher

KENNETH A. BRENT Managing Editor

Editorial

WATER IF NEEDED

The dry weather of last autumn has been followed in some localities by a mild winter, with so little snowfall and rain that the water table has been dropping. Most nurserymen keep track of the weather conditions in their home communities, but most of their customers do not.

Unless good rains saturate the ground in the dry areas, there may be damage to trees and shrubs, particularly evergreens, next summer. The nurseryman can earn the goodwill of his clients by offering suitable precautions where they are necessary. Instructions as to watering can be embodied in circulars or other mail matter sent out, or the retail nurseryman or garden shop operator can post a sign where spring buyers will read the instructions. Thus, in areas of excessive dryness, nurserymen can avoid complaints on plants newly sold and earn the appreciation of gardeners who will give suitable attention to their older plantings.

THE FAR VIEW

The near-term outlook in the nursery industry is generally a subject of optimism. The twofold basis for such favorable view is the continued high level of home building and the increasing public interest in gardening. Hence no surplus of stock is foreseen in the early future; indeed, shortages of some classes of plants are expected to continue.

In closing the gap on such shortages, wholesale growers cast their eyes farther ahead. What the far view contains was recently suggested by the remarks of the president of the largest manufacturer of automobiles. He drew attention to the increase in population in the United States, which has amounted to almost 22 per cent since 1940 and which is expected to continue so that, by 1975, our population may total as much as 220 million.

With population increasing, employment rising in proportion and production keeping pace, a steady

The Mirror of the Trade

climb is expected in national income. Disposable income per capita, which is now about 40 per cent above the 1940 average, expressed in terms of buying power, may well be about 70 per cent above by 1960.

So this seems no time to hang back on plans for expansion in the production or sale of nursery stock. The buyers are on the increase; their income enables them to buy more; their interest in our merchandise steadily

GARDENERS' COURSES

Adult education through evening classes in our public schools has become popular in various parts of the country, and the list of subjects has widened, from languages and art skills, to include mechanical skills and even flower arranging and phases of gardening.

Yet rarely is there offered a course in elemental botany or plant identification which would give homeowners the groundwork for their gardening activities-a simple course that would teach them the names of common trees, shrubs and flowers they see about them, together with such knowledge as to give them understanding of the different needs of different plants as to soil, sunshine,

Such a course would be of still more value if it were made a part of the curriculum in high schools, where courses in botany have been dropped for lack of student interest in the dry scientific treatment of the subject, which taught them little likely to be remembered or of practical value. The homeowners of the future are as much entitled to instruction in gardening as in carpentry or automobile repair. The latter courses are popular because the presentation is practical, and gardening, rather than botany, should be taught the same

No one realizes better than the retail nurseryman how slight is the knowledge of plants possessed by the average citizen. His new customers supply many examples of the common ignorance. To many of them the plant names mean nothing, even to distinguishing a barberry from a spiraea.

Those nurseryman who sit on school boards or act in other civic capacities-and there are manywould offer timely service to the increasing ranks of gardeners if they suggested courses to help them. Also,

through local garden clubs and other horticultural groups the matter could be taken up, for it is distinctly a local affair. Once initiated, however, such courses would spread by example to other communities and sections of the country, as have the adult education classes.

TRADE DESCRIPTION LAW

From time to time discussion arises in this country on the desirability of legislation which would penalize, more severely than now is the case, violations of ethics or truth in advertising copy. Such a law now exists in England in the Merchandise Marks act of 1953, effective February 1 of this year, because it adds to the similar acts passed since 1887 definitions of "trade description" and "false trade description" and goes so far as to say that misleading trade descriptions may not be made.

According to the English law, a trade description is misleading if the description of any trader's products "is calculated to be misunderstood as or mistaken for" a standard of quality, or as to the goods' fitness for "purpose, strength, performance or behavior."

Nurserymen across the water are being advised by their trade association to overhaul their trade descriptions in catalogs and advertisements to make sure they are both honest and accurate.

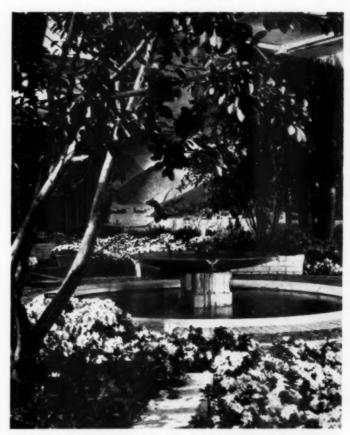
The use of "trade practice" as a defense is not valid under the English law, for in eighteen prosecutions for the use of the term "silk" to describe a rayon fabric resembling silk, the fact that it was a trade practice was held immaterial when in fact the application of the word was false.

The trend of the times is toward legislation to protect the public from those who would take advantage of its ignorance. Fairness to customers, as well as self-protection from such legislation, more than ever requires adherence to truth in advertising.

ELECTED to office in American Association of Botanical Gardens and Arboretums for the year beginning March 1 were president, John C. Wister, director, Scott Horticultural Foundation, Swarthmore College, Swarthmore, Pa.; vice-president, Maunsell Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga, Calif.; secretary, Carl W. Fenninger, president, Tyler Arboretum, Philadelphia, Pa.

Flower Shows

Nurserymen
Join in
Dazzling Salute
To Spring



Part of Exhibit of Roy F. Wilcox & Co. at California Show.

HARBINGERS of spring across the nation are the annual flower shows. Presenting a welcome foretaste of the reawakening loveliness of nature, they epitomize, in distinctive design, the finest in horticultural beauty and achievement. Members of the nursery industry are prominent participants in the presentation of these shows, and their many notable displays well illustrate the contribution of the industry to graceful, wholesome living. This article, stressing the role of the nursery industry, reports the outstanding presentations at a number of the shows.

One of the largest floral events was the 38th International flower show, cosponsored by the New York Florists' Club and the Horticultural Society of New York and staged at the Kingsbridge armory, Bronx, N. Y., March 7 to 13. This major horticultural event previewed the vernal season for the many attending trade members and garden enthusiasts of the eastern seaboard.

For the first time in its long and popular history, the show was held at a new location, and any doubts that officials of the sponsoring organizations may have had regarding public acceptance of the new site were quickly eliminated on opening day when police barricades were necessary to control the long lines

of people waiting to purchase tickets.

Adequate parking facilities, which included a shuttle service from the parking field to the armory, accounted for a large percentage of the attendance from the suburbs. Railroads and bus lines serving the city ran special excursions throughout the week.

Exhibitors were delighted with the unrestricted floor area which permitted them to drive their trucks right into the armory. The weather, prior to and during the run of the show, was balmy and clear, and the condition of forced material was excellent.

The functional garden design, reflected by the younger elements in the trade, continued to increase in popularity, especially with viewers. Suburban homeowners were quick to notice designs and materials which could be adopted for small grounds

In contrast to Grand Central palace, former site of the show, where exhibits were staged on four floors, all exhibits at the armory were on one floor. This area is not only more spacious, but it was designed by Don Roehrs, landscape architect of Franklin Lakes, N. J., to present a unified panorama of color and design and also to allow 33 per cent more aisle space. The main gardens were arranged along the central aisle of the arena and were the prime attraction for the thousands of visitors.

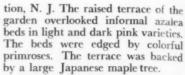
In the 700 square foot class, Dalsimer, Inc., of Cedarhurst, L. I., was awarded the special trophy of the International flower show, in addition to a gold medal certificate, for an informal garden which stressed adaptability to outdoor living quarters. Weathered bricks were used on a semicircular patio area which was keyed to a raised circular brick planter with a large specimen of white pine. Ivies were used as a ground cover beneath the tree. A high arborvitae hedge served as a background



for an evergreen planting on the left of the entrance, which featured a cherry tree. Color accents were provided by clumps of hardy candytuft and grape hyacinths.

Tow Path Gardens, West Hartford, Conn., received a gold medal and special trophy for a formal sunken herb garden, radial in design, which featured a wall fountain and antique well. The design had in its center an old sundial. The deep tones of gray and green created by the herb plants were occasionally broken by small patches of daffodils.

The James S. Kelly trophy and the gold medal of the Massachusetts Horticultural Society were awarded to the informal garden staged by Ruth V. Twombley, of Convent Sta-



Julius Roehrs Co., Rutherford, N. J., was awarded a gold medal and trophy for a bromeliad tree. The plants, including 33 types, were arranged cleverly in the branches and trunk of a huge stump.

Best Educational Exhibit

The T.A. Weston memorial trophy, awarded to the most educational exhibit at the show, was given to Rutgers University, New Brunswick, N. J., for its display demonstrating the lighting techniques required by foliage plants grown indoors. The lighting of foliage plants was only one part of the school's 2-part exhibit. The other consisted of a display of broad and narrow-leaved evergreens suitable for planting the small home grounds. A large drawing board, with plans for a foundation planting, was in the background, and long strands of ribbons, attached to each point on the plan and extended to the individual plants, identified plants in the drawing and their relationship to the over-all design.

In the commercial group for gardens in the 1,200 square foot class, Bobbink & Atkins, East Rutherford, N. J., were given a gold medal for a spring garden which featured azalea beds on either side of a raised flagstone terrace, which was backed by a low yew hedge and a basket weave fence. A low edge of Taxus andersoni outlined an informal lawn area; pachysandras edged the azalea beds. Scotch pine and flowering dogwood

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Some noteworthy exhibits at the flower shows. At top of page is illustrated a section of the display of Lewis & Valentine Nurseries, Greenvale, N. Y., at the Long Island flower show. This garden featured the large barbecue unit shown here. Directly above is the entrance to the "Haddon Hall" exhibit, by Germain's, Inc., Los Angeles, Calif., an award winner at the California international flower show. At right is a prize winner at the New England spring flower show. The over-all design of this exhibit was by Seth Kelsey, East Boxford, Mass. Fishelson Florist and the Boston park department cooperated with Kelsey-Highlands Nursery in the display.



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More flower show exhibits. Directly at left is the display of Bobbink & Atkins, East Rutherford, N. J., at the New York international flower show. This garden was a gold medal winner. Also from the New York show is the illustration directly below, showing the exhibit of Brookside Nurseries, Darien, Conn. This informal garden in a woodland setting was also a gold medal winner. At the lower right corner of the page can be seen part of the Chinese garden exhibit of Lambert Landscape Co., Dallas, Tex., which appeared at the Dallas flower show. Tulips, geraniums and cherry blossoms helped give this garden a delicate appearance.

trees were colorful accent points at the left of the terrace.

In the same class, Don Roehrs, Franklin Lakes, N. J., was also awarded a gold medal for an informal rose garden which adhered to modern design lines. A terrace, enclosed by bone-white concrete, was backed by a high evergreen hedge of Ilex crenata. The terrace, designed for an outdoor living room, included protection from the elements with a large rust-colored piece of canvas stretched across a redwood frame.

Woodland Gardens

Daybreak Nurseries, Westport, Conn., were given a gold medal for a rustic garden in the 1,200 square foot class. A facade of an old house fronted on a small natural pool, fed by a running stream on the right. The entrance to the garden was in the center, with a large slate slab serving as a bridge over the pool. Plants included varieties native to woods. The entrance was flanked by a single line of azaleas, with a patch of lilies of the valley on the right.

Brookside Nurseries, Darien, Conn., were also awarded a gold medal in the large commercial garden class for an informal garden in a woodland setting. The triangular design had for its base an outcropping of rock, with a small brook flowing down the side. A border of delphinium and lilies encircled the lawn area. The rock formation had a clump of white birch trees on the right and a specimen honey locust on the left.

The Old Copper Mine Farms, Warrenville, N. J., were given a gold medal certificate for a Dutch garden



in the center of which was a working windmill. A small canal, crossed by a rustic log bridge, flowed through beds of tulips and hyacinths. A small weeping willow tree, in the foreground, bent its branches down over the bridge. Flowering forsythias were used in the background and along the canal.

The smaller garden class for commercial exhibitors generated as much interest as the larger gardens because the majority of viewers could more easily identify their own property with the space used. In the 700 square foot class, Vaughn's Seed Co. gained a gold medal for a semiformal tulip garden. Tulip beds on either side of the lawn area featured colorful varieties of pink, white, purple and yellow blooms backed by an

[Continued on page 79]



Ohio Group Holds School

The Lake County Nurserymen's Association recently held its annual 1-day nursery school, with approximately 150 nurserymen from Lake, and adjoining counties, as well as from northwest Pennsylvania, in attendance. The event took place at Lutz's hotel, Painesville, O.

The morning's program included discussions by Dr. L. C. Chadwick, Dr. R. B. Neiswander and Prof. Victor Ries, with David Dugan, president of the association, in charge of events. Dr. Neiswander, entomologist at the Ohio agricultural experiment station, Wooster, spoke on "Insecticides to Use in 1954." Members found this talk of particular interest, because many of the new products on the market today are not well-known as yet. Dr. Neiswander evaluated their merits and effectiveness on various types of nursery stock.

Association members took part in a panel discussion on transplanting, which was led by Dr. L. C. Chadwick. Michael Sebian, Painesville; Zophar Warner, Willoughby; Jacob Hendriksen, Madison; Paul Otto, Perry; William Cole, Painesville, and Roy Hetz, Fairview Nursery, Fairview, Pa., exchanged ideas and opinions on methods of transplanting various types of nursery stock. Those listening to the exchange gathered valuable information from the experiences related by the panelists.

The all-important subject of "What Do the Consumers Want?" was discussed by Prof. Victor Ries, department of horticulture, Ohio State University. With some knowledge of the type of nursery stock the homeowner or landscape architect will require to fill his needs, the progressive nurseryman is able to plan his propagation program, so that he is not only able to serve the present needs of the consumer but can also foresee, to a certain extent, the trends the buying public will follow in the future. Professor Ries' talk provided an insight into the way economic adjustments throughout the country will affect the nursery business and showed how, with the help of various media, nurserymen may offer their products to make homeowners conscious of the need for better landscaped homes, yards and gardens.

Prof. E. K. Alban, vegetable crops department, Ohio State University,

led off the afternoon session with a discussion of chemical weed control in the nursery, and Dr. Chadwick then addressed the group on new practices in the nursery industry. Like many businesses, it has undergone many changes as a result of mechanical and technological advances.

The next speaker, Prof. Virgil Overholt, agricultural engineering department, Ohio State University, was assisted by Warren Bales, farm planner, Lake county soil conservation district, in his discussion of "Irrigation and Irrigation Ponds." During the past few years many nurseries in drought-stricken areas have been severely affected by lack of water. Those which have made provision for reservoirs have found that the cost is negligible and the benefits derived from irrigation systems numerous. Not only is irrigated stock of better quality than that which has suffered from excessive heat and lack of water, but planting losses are also kept at a minimum

when a plentiful water supply is available. More and more nurserymen are becoming aware of the importance of being prepared to cope with drought and are giving thought to this problem. Those who want to keep in step with the times will place irrigation at the top of their list of improvements to maintain operating efficiency at a high level.

Joseph Kern and Gerald Klyn, Jr., rose growers, of Mentor, showed slides of new A.A.R.S. rose varieties.

This concluded the afternoon session, which was directed by Charles Kohankie, Painesville.

In the evening, nurserymen, their wives and friends attended a banquet which was followed by a showing of colored slides of European gardens. These slides were made by Professor Chadwick on a European trip and proved to be of great interest.

The educational program had been planned by F. Glen Haskins, county agricultural extension agent, assisted by the following nurserymen: David Dugan, Kenneth Fisher, Michael Sebian, Robert Kallay, Charles Kohankie, Zophar Warner and Russell Champion.

Allied Groups to Meet with A.A.N.

Plans for allied groups meeting during the convention of the American Association of Nurserymen, to be held in July at the Hotel Radisson, Minneapolis, Minn., have now been completed, and rooms have been assigned.

Several groups will meet at the Radisson before the opening of the general sessions on July 19. These include the A. A. N. board of directors, All-America Rose Selections, and stock committees and general sessions of the Ornamental Growers' Association and Fruit Tree Growers' Association. The A. A. N. board of directors will meet July 15 to 17, holding both morning and afternoon sessions in room 115. Stock committees of the Ornamental Growers' Association and Fruit Tree Growers' Association will meet Friday, July 16, from 9 a.m. to noon and 2 to 5 p. m., respectively, in room 118. The same hours on Saturday, July 17, are assigned to general sessions of these growers' associations, which will be held in the Admiral room. The All-America Rose Selections has been assigned the Italian room and will hold a Saturday afternoon session from 2 to 5 p. m.

On Sunday, July 18, the executive committee of the National Land-

scape Nurserymen's Association will meet from 9 a.m. to noon in room 118. The All-America Rose Selections will convene from 9 a.m. to 5 p.m. in the Admiral room, and the market development and publicity committee of the A. A. N. will meet from 2 to 5 p.m. in room 118.

After the opening of the A. A. N. general sessions, which will be held from July 19 to 22, a number of additional allied meetings are scheduled. On Monday, July 19, the Baby Ramblers breakfast will take place at 8 a. m. in the Admiral room, and the National Association of Plant Patent Owners will hold an all-day session in room 118.

The Nursery Association Secretaries' breakfast and meeting is scheduled from 8 a. m. to noon on Tuesday, July 20, in room 118. On the same morning the American Nurserymen's Protective Association breakfast and meeting will be held in the Admiral room. The All-America Camellia Selections will also meet Tuesday, from 9 a. m. to 5 p. m., in room 328.

A breakfast meeting of the National Mail Order Nurserymen's Association from 8 to 11 a.m., July 21, in the Admiral room, concludes the scheduled allied meetings.

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Constant Promotion Scores for Landscape Firm

By David M. Zakon

One of the biggest landscaping operations north of Boston and one which has enjoyed a healthy growth of volume since the mid-30's is that of Corliss Bros., Inc., of Gloucester and Ipswich, Mass. It was not surprising that the American Association of Nurserymen last November selected for one of the national awards in the "Plant America" industrial landscaping contest the Bomac Laboratories, Inc., of Beverly, Mass. The Bomac grounds were landscaped by Corliss Bros. in 1950 under the planning and supervision of Guy Wright.

Behind any successful enterprise there are always several important factors and the Corliss operation is no exception. Let us examine them one by one.

The newspaper advertising program developed by the Gloucester firm is undoubtedly one of the more important reasons behind the steadily increasing demand for their serv-



A Corliss Newspaper Advertisement.

ices. Their advertising is not of the hit-or-miss variety. It is cleverly conceived, carefully planned and thoroughly tested for pulling power. The various features of this program bear explaining:

1. The ads appear in the important local newspapers of the north shore area, totaling six in all. This is shooting right on target for the Corliss company since they are reaching prospects only in the area that they service. Ads in the metropolitan papers of Boston, for instance, would be more costly and would bring in inquiries from areas that they cannot service profitably.

2. The Corliss ads appear weekly in the six leading newspapers every month of the year, excepting January and February. The size of the ads of course increases during spring and early fall. The ads are run even at times when the firm's landscaping department is loaded with work. The over-all purpose of the whole advertising campaign is to make the name of Corliss synonymous with landscaping, so that people contemplating a landscaping job think automatically of the ads they have been seeing every week for so many months. For this reason Cliff Corliss, company president, feels that it pays them to advertise during the off-season months as well as the peak months.

3. The newspaper ads are not agency-written. The copy is crisp, technically correct and down to earth

[Continued on page 60]



Night View of the Corliss Display Window at Ipswich, Mass., Which Pictures Landscaping Jobs Done by the Firm.



A row of Pinus sylvestris watereri one and one-half years old. Note the large number of shoots, a result of the plastic wigwam method of propagation. The plants are vigorous and are ready for permanent placement.

Plastic Wigwam Method of Propagation Gains Favor

By Victor J. Mc Nitt

The application of plastics to horticulture is a subject of great current interest, and justly so. The new techniques can be employed by anyone—a Sunday gardener or 1,000 acre nurseryman. They require no expensive or permanent equipment and will not flatten even the most modest pocketbook.

Although these techniques are new to the art of propagation, they are the result of more than seven years of planning, experimenting and testing, so that their application and worth are now well established.

To establish the true value of any new technique in horticulture requires broad testing, and this is a time-consuming process, for, as every nurseryman knows, nature works relentlessly, but slowly. Natural development proceeds just so fast, in spite of fly-by-night advertising which would try to make one believe it possible to produce a giant baobab from a cutting in two weeks.

Recently we have been bombarded by advertising which states that such and such a plastic method will produce, in five or six weeks, a \$50 specimen tree, which previously required years to produce. Anyone who has had any association with horticulture knows that this is not true! Producing a good specimen plant still requires years of good growth and plenty of work, regardless of the technique employed in its propagation.

Such advertising should be discouraged because of its detrimental effect on the nursery industry. When the public becomes convinced that the nurseryman can produce a \$50 specimen in a few weeks for 35 cents, it balks at the realistic price which a nurseryman must ask.

I have been working with plastics since their first appearance on the market and have proved by varied experiments and tests that plastics will produce extraordinarily fine plants. Difficult tasks can be performed with plastics with amazing simplicity and a minimum of care.

Like many new materials, plastics have, in some cases, been used improperly; and this has caused distrust in some minds. An intelligent person would not consider constructing an automobile frame of white pine lumber; on the other hand he would not condemn white pine lumber because it is useless for this purpose. Likewise, in the field of horticultural plastics, certain materials are almost unbelievably useful and efficient for some purposes but entirely useless for others.

The field of plastics embraces a wide variety of materials, with widely different chemical and physical characteristics, and widespread confusion exists concerning these materials. The imaginative trade names applied to some of them have added to the confusion. Also a given material may appear in forms varying from mem-

brane-like film to large solid objects. The form, of course, dictates the application of the plastic, as much as its physical-chemical peculiarities do. For example, in the application of various plastic films, the weights must be selected carefully, as the density controls gas movement and solar penetration. Some films are not gas-pervious at all, and would be useless where gas penetration is a primary consideration.

Thus we find, as in any other field, that we must select our methods and materials carefully. When we have done so, our technique will produce

outstanding results.

The Plastic Plant Wigwam (patent pending) is one of the plastic techniques which have produced extraordinarily fine plants with little care. Because of the extreme simplicity of the device itself and its operation, it can be used anywhere. With nothing more than a knowledge of a few fundamental plant laws, one can use it to produce plants of excellent health and vigor. However, because this technique varies so widely from established practice, this article will explain the details of its use, answering such questions as "How?", "When?" and "Where?"

How Wigwams Are Used

The scion can be carpentered to the stock by any of the common methods which will give a satisfactory union of the cambium cells. The common veneer or side graft are usually most satisfactory and simple to make, and these are best made as near the root crown as possible. However, there are cases when it is desirable to elevate the scion somewhat. For example, in placing scions on dwarfing stocks, one should keep the union slightly above the ground line to prevent the possibility of the union's becoming buried, which, of course, would encourage root formation on the scion and defeat the purpose of the grafting. Certain scions are also elevated because their own wood is subject to such ailments as collar rot, and they are worked on a resistant stock. Weeping trees are also elevated on an upright standard, but this requires a special technique, which will be discussed in a future

The object in placing the scion low, as a general practice, is that in transplanting or permanent placement, the union can be dropped below the ground line, and the scion will eventually go on its own roots. There is reason to believe that such plants are longer lived; however, the plastic-propagated plants are doing

[Continued on page 46]

Controlling Nursery Insect Pests

By R. B. Neiswander

A feature that influenced the insect problems on woody ornamental plants during 1953 was the unusually low amount of rainfall. The official weather records taken at Wooster, O., showed a total precipitation that was 11.97 inches less than the average for the past 66 years. It was only 68.4 per cent of that normally anticipated and was the lowest on record. The influence of this dry weather on certain insect pests will no doubt carry over into 1954, even though an adequate supply of water may become available.

Many shade trees, particularly maple, elm and pine trees, are now infested with borers and bark beetles. These pests do not commonly survive in vigorous trees, apparently because of the copious exudation of gum. They have become pests because the trees are weak; therefore, the logical control measures consist in those practices which will increase the vigor of the trees.

Injury caused by the black vine

From an address by Dr. R. B. Neiswander, of the Ohio agricultural experiment station, given at the 1954 nurserymen's short course at Ohio State University, Columbus, O.



A red pine shoot cut open to show a larva and a pupa of the European pine shoot moth.

weevil and the strawberry root weevil may be more pronounced than usual in 1954. This is likely to occur because these insects destroy the roots of plants and thereby reduce the supply of water available to plants that are already suffering from insufficient rainfall.

The black vine weevil is most troublesome on taxus in Ohio, although it sometimes attacks rhododendron and azalea plants. The name was derived from its activities in European countries where it has been a severe pest of grapes.

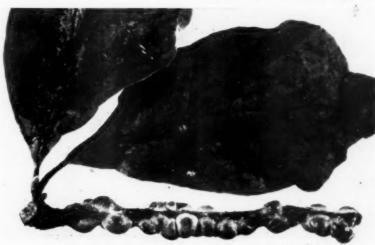
Only one brood of the weevils occurs each year. The black beetles, which are approximately a half inch in length, emerge from the soil primarily during the month of June. They feed on the foliage at night but hide during the day in debris and loose soil under the plants. The injury resulting from the feeding of the adult beetles is seldom noticed on taxus foliage but may be prominent on rhododendron plants.

The eggs are simply dropped to the ground during July and August and hatch into larvae which enter the soil. As indicated above, the chief damage results from the destruction of the roots by larval feeding. Larvae frequently become sufficiently abundant to kill relatively large plants.

Adult Beetle Killing Most Useful

Experiments in control of the black vine weevil show that insecticides are more effective in killing the beetles feeding on the foliage than in killing the larvae in the soil. Inasmuch as the beetles emerge from the soil four to six weeks before they begin laying eggs, a spray application can be delayed until practically all of the insects have reached the adult stage. At that time one application should result in almost complete control. The suggested treatment for infested plantings is a spray containing Aldrin applied to the foliage during late June or early July. If Aldrin cannot be obtained readily, Dieldrin, Heptachlor or Chlordane may be used instead. Any one of these poisons may be used at the rate of one pound of the toxicant in 100 gallons of water. The spray should be applied thoroughly, particularly on the lower branches and interior of each plant.

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The Magnolia Scale (Bottom) on a Magnolia Twig.



A Flattened Pine Inside the First Dunes Along the Coast Line of the Atlantic Ocean.

Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

PLANT ECOLOGY

(This is the second article by Mr. Lewis on plant ecology. The first appeared in the March 15, 1954, issue of the American Nurseryman).

All conditions are not conducive for the sequence of associations to take place that is typified in northeastern United States by the beginning open-field association and climaxed by the beech-maple-hemlock association.

Certainly the growing conditions bordering the north Atlantic coast are not suited to the lush growth found in many of our inland woodlands. The soil is mostly sandy—at least that section is that I am thinking of—and sometimes not even of a good grade. The wind blows as though it will never stop, and it never does, and it carries air laden with salt. The difficult conditions do not stop here. The media in which the plants must grow is an ever-moving sand that piles in and around the plants and will kill those unsuited for living in this environment.

The area immediately bordering the ocean offers the most trying conditions, and, as you move inland, plants become more numerous and have straighter stems. The bays and the channels do not tax the plants as does the ocean. Along the ocean front holding the dunes are beach grass, beach goldenrod, perennial sweet pea and saltbush; but, inside the first row of dunes, red cedar,

beach plum, bayberry and some species roses become noticed. If we are to compete against the moving of sand and maintain protective growing conditions for less rugged individuals, then such plants of foreign origin as Japanese black pine and autumn elaeagnus might well be planted with the natives.

Well protected by high dunes and in depressions afforded by them are many flat-topped trees of unusual forms. It may surprise you to know that many oaks dominate the trees. Included are such oak species as white, post, black, scarlet, blackjack, and, sometimes, red and chestnut oaks. Other trees are found in these areas, often where the water table is high. They are black gum (Nyssa sylvatica), sweet gum (Liquidambar styraciflua) and gray birch.

Many shrubs, some of which occasionally become trees, abound near and in the protection of the larger trees and dunes. Shadbush, many rose species, sweet fern, sheep laurel, arrowwood, various blueberries, chokeberries, inkberry, American holly, sweet pepper bush, bayberry and beach plum frequent such areas.

A long list of herbaceous plants could be made, but most of the plants would have to be collected since they are not grown commercially. The colors are varied and rich, but yellows and blues predominate. A few of the examples are butterfly weed, which is sold by nurserymen; many asters; wild indigo; rockrose; beach pea; wild lupine; beach goldenrod, and toadflax.

You have probably begun to wonder by this time, and particularly if you read the material in the March 15 issue of this magazine, what value this information has for landscape interest and use. Understanding plant associations and their sequences, gives one a realization that plantings are more than just jumbled grouping. Plants grow in the association of others because they profit from the same experiences and conditions. We should become more familiar with these conditions and experiences and not try to use plants in an environment that is not suited to their best interests.

We can also duplicate plant group-[Continued on page 75]



A kettle-hole glaciated area with its natural plant life, which includes water and land plants.

New and Unusual Plants for CALIFORNIA

By V. T. Stoutemyer

Successful plants, even after propagation and placement in trade channels, sometimes are not sufficiently distinctive to excite enough interest to keep them permanently on the nursery list. The plants to be discussed, which are found in southern California nurseries, all seem to have sufficient merit. Some are new; others are found only in a few old gardens. But often these old gardens can be as fruitful a source as foreign exchange.

One of the older plants, which is coming back into commerce, is the red-foliaged form of Cordyline australis. One reason for the demand for this and similar plants is the current use of redwood in house construction. Another comeback is the New Zealand flax, Phormium tenax, with some unusual color forms of an odd metallic sheen.

Bamboo trees have many fascinating possibilities for landscape design but must be used intelligently since they are difficult to confine. The clumping forms are safest in this respect, but even some of the giant ones may prove competitive, and they are hard to use on small lots. If obtainable, it is best to plant wellestablished container plants. Perhaps one of the commonest mistakes is to let them form masses of stems which in some situations destroy the charm and gracefulness of the plants. This, of course, would not apply to bamboo trees used as hedges and windbreaks. Bamboos are excellent interior plants and will grow in light exposures where other foliage plants will suffer because of excess light.

Flowering Trees

Flowering trees are an overlooked opportunity to obtain color in ornamental plantings. There are some excellent but tender sorts which are suitable only for the milder areas. On the other hand, there are novelties in flowering peaches and in new deciduous magnolias which can be used in colder areas.

Several flowering trees of Robinsonella cordata at Bel Air, Calif., the past spring attracted much attention with their masses of lavenderblue flowers, which produce an effect like that of a jacaranda. This evergreen foliage introduction from Central America is not yet wellknown, but the tree form is good.

Similar to a pink dogwood is the Chorisia speciosa, of which there are only a few specimens at Los Angeles.

This noble tree is also grown in southern Florida and other warm areas.

Another meritorious plant is the Talauma hodgsoni, which is a close relative of the magnolia and is from the Himalayan region. Its flowers are fragrant and its leaves are large and striking in appearance.

A tree sometimes used by landscape architects for its attractive foliage and neat habit is Persea indica. This tree is sometimes found in nurseries near San Francisco and is being sold everywhere under the erroneous name of Persea borbonia.

Aleurites moluccana, a definitely tropical evergreen tree frequently used in Hawaii, has been successful. Another good tree for the climatically favored area is Thespesia populnea, a member of the malvaceae family. A shrub with somewhat similar leaves is Wercklea insignis, which also belongs to the malvaceae family.

Many members of the araliaceae are currently available. The demand for unusual foliage, suggesting the [Continued on page 78.]



Pseudopanax Ferox.



Nothopanax Arboreum.



Oreopanax Nymphaeifolius.



Hebe Autumn Glory.



CHARLIE CHESTNUT

"WATCH FOR A CRISIS ON THE 16th"

"What of the morning, my friend? And what of the coming day And what of the long day's end? Nobody, alas, can say."

—Ballads of a Bushman
P. Tunia

The morning never foretells the day's events, and it is a very good thing, too, as Emil had a chance to find out one day last fall. That very morning Emil was reading again in the almanac, as he does almost every

morning.

"Listen to this, Chas.," he says to me. "It says here that Jupiter is in my sign with Mars in opposition and it can heat up your life and affairs in an unhealthy manner. Make sure you avoid strife and friction. You may meet a sudden crisis around the 16th, especially around the 16th and 17th. What do you make of that Chas?"

"Well, today is the 16th. Sure sounds bad for you Emil, today and tomorrow, altho as I have told you a hundred times I dont go for that

stuff," I says.
"What about that time last August, when it said I might have trouble with health matters, when I got taken with the cramps? I was laid up for three days," Emil says.

"If you will remember, that was when you went to the firemans picnic and ate too many ham hocks, no wonder you was on the bum, you could have foretold that without any almanac to guide you," I says.

"Dont forget that time when we got the order from Mrs. Morse for the 7 big box elders, that you wanted to grub out, remember what it said that day Chas.? It said that Saturn and Mars had moved in the 7th house of Taurus Chart, and there would be some good news. Remember that Chas? Thats the day we got the order," Emil says.

As the members well know who have heard his heated discussions with John Bushbottom at the convention, Emil is a great believer in all the signs, and will never plant anything unless the sign of the moon is

"If you are done with that non-sense," I says, "what is the order of

the day?"

Before we could get organized we had a visit from George Pound, the constable in Riverbend. He come

into the office before we seen him, otherwise Emil would have ducked out, thinking George was after him with some summons from a collection attorney, but that wasnt what he

was after.

"Emil," he says, "there is two crooks operating around here, they made a big haul in Lake Park yesterday. The sheriff's department called me this morning to be on the lookout and to warn all business places. They probably wont call here, but you can never tell. Generally they come in the afternoon making some inquiries on prices or some excuse just to look the place over and then they come back at night and hold the joint up. If they should show up here, let me know and we will plant a couple of men here to see what happens.'

"They wouldnt ever show up here, George," I says, "They wouldnt get over two dollars," I says, "unless

somebody just paid a bill."

"I wouldnt be too sure," Emil says. "Remember what I was reading in the horoscope. Watch out for a sudden crisis, it says here in the almanac.

"Well, if they show up, call me right away, Emil, theres a reward out and Id like to get in on it,"

George says.

That afternoon about three oclock I was greasing the windmill, when I seen a car drive in with two men. They come over and asked for a pricelist and it seemed to me they was looking the place over more than a regular customer. I told Emil about it when he got back from Steamboat Fultons place where he went down to get a short beer before supper.

"Better call George Pound," Emil says. "They might be the ones."

"Ill get a couple of deputies, Emil," George says. "You just go along in the regular way. The men will be out and hide their car and then wait where they can keep an eye on things," George says.

About 5:30 the two deputies drove in. I parked their car in back of the corn crib, so you couldnt see it from the house or the office, and they made a lookout from the office window so they could see if anybody drove in.

"Here's your instructions," they says to Emil. "If they show up, which aint likely, we wont make a move until they get ready to go. Dont worry, they will probably tie up your wife and you and search the house. When they get ready to go we will come out and nab them. You do whatever they tell you and you wont get in no trouble. Better have a few dollars in your billfold too."

"Better let me take 3 or 4 dollars, Chas.," Emil says to me. "All I got in cash is about 70c, and it might look a little suspicious if I only got that much on me. Emma has got \$30 in a teapot, should I let them take that or should I hide it?" Emil

asked the deputy.

Put it where they can find it, so we can get something on them," one

deputy says.

Emil went in and started his supper. He was just picking his teeth when it happened. Two gents drove in, took a quick look around the house and walked right in the back door. (I was hiding in the well house beneath the windmill, where I could see everything). They was in there about 20 minutes and I was getting Emils goose gun ready, when they come out heading for their getaway. Just as they were getting in the car the two deputies rushed in and fired a couple of shots. They drilled one of the tires and closed in.

"Put up your hands and throw away your guns," one of the deputies

I rushed into the house. Emil and Emma was in the kitchen tied to chairs with their mouths taped. I took the tape off Emil. "Get this rope off me Chas.," he says. "Its hurting my lame shoulder." I unfastened them both and they got up and stretched their legs a little.

"They took my billfold and they took the money out of the teapot too," Emil says. "Have they got them tied up Chas? I heard some shots."

"They ransacked the whole upstairs," Emma says. "I heard them throwing things around in the closets and pulling out the dresser drawers."

We all went outside, there was the two robbers, the two deputies me and Emil and his wife Emma.

[Continued on page 42]



Amazing WILT-PRUF gives you proven plant protection in your sales yard!

Balled and Burlapped Stock... Canned Trees and Shrubs... Heeled-in Plants... retain moisture... look better.. sell faster when coated with WILT-PRUF!

- The nursery stock in your sales yard will keep fresher . . . look better . . . replant easier—if protected with WILT-PRUF.
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Economical WILT-PRUF comes to you in concentrated form—in 1, 5 and 52-gallon containers. As an anti-transpirant for virtually all trees and shrubs, from rooted cuttings and liners up to maturity, use 1 part WILT-PRUF to 4 to 6 parts water; for perennials, annuals and other herbaccous plants, use 1 part WILT-PRUF to 7 to 9 parts water.

52 gallons: \$5.50 per gallon 5 gallons: \$6.15 per gallon 1 gallon: \$6.60 per gallon

Slightly higher in Canada and Mexico

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Says L. L. Baumgartner, Director

Baumlanda Horticultural Research Laboratory

WILT-PRUF helps keep plants alive, healthy and fresh after digging with less watering than was formerly needed. It enables your salesmen to advise customers confidently on how to water newly purchased plants, with practically complete assurance of success!

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| Abies concolor (White Fir) | Each 10 100 1000 |
|---|--|
| A tree of symmetrical growth and beautiful bluish foliage. I to 3 ins., once transplanted | Cotoneaster horizontalis (Rock Cotoneaster) Well-known and deservedly a great favorite; low growing. 3 to 5 ins., once transplanted |
| Ajuga reptans rubra (Purpleleaf Bugle) | 3 to 6 list, once transplanted \$10.00 \$ 80.00 |
| A worthy rock plant and ground cover. | Cryptomeria japonica elegans compacta (Compact Plume Cryptomeria) |
| I-yr. plants | A green cone-shaped free of unusually compact growth. 6 to 9 ins., once transplanted |
| Azalea amoena coccinea A splendid dwarf evergreen azalea. Flowers bright red. | |
| I to 3 ins., once transplanted \$12.00 \$ 96.00 | Cryptomeria japonica lobbi (Lobb Cryptomeria) An upright, shapely, dwarf conifer growing to a few feet in height. I to 3 ins., once transplanted |
| Azalea hexe (Firefly Azalea) Dwarf and compact. Foliage heavy, glossy, dark green. Flowers bright red. | Cryptomeria japonica nana (Dwarf Cryptomeria) |
| I to 3 ins., once transplanted \$12.00 \$ 96.00 | Light green, hardy, very compact globe, extremely dwarf. I to 3 ins., once transplanted\$14.00 \$112.00 |
| Sherwood Cerise Azalea | Erica carnea (Springwood White Heath) |
| A wonderful dwarf evergreen. Flowers bright, clear cerise. | Fine, low-growing heath with an abundance of bright green foliage. |
| I to 3 ins., once transplanted \$12.00 \$ 96.00 | 3 to 6 ins., once transplanted |
| Sherwood Orchid Azalea Flowers are a clear lavender and completely cover the plant. Dwarf. | Hedera helix conglomerata (Bunchleaf English Ivy) |
| 6 to 9 ins., twice transplanted, B.R. specimens | Low growing. Leaves crowded, contorted and small. I-yr., once transplanted |
| 9 to 12 ins., twice transplanted, B.R. | Indiana hairatik (Bartist C. C. C. C. C. C. |
| specimens | Juniperus horizontalis (Bar Harbor Green Creeping Juniper) This is a lovely green form. Procumbent and trailing. |
| Sherwood Red Azelea Compact, dwarf and evergreen. Flowers the most brilliant blood- red imaginable. | 9 to 12 ins., twice transplanted \$21.00 \$160.00 |
| 1 to 3 ins., once transplanted \$12.00 \$ 96.00 | Juniperus scopulorum (Rocky Mountain Juniper) |
| Calluna vulgaris aurea (Golden Heather) | The well-known and justly popular western juniper. A very hardy tree; color bluish-green or silvery. |
| Possesses fine golden foliage. Flowers are in soft, pleasing lavender shades. | 30 to 36 ins., B&B, twice transplanted \$16.70 \$150.00 3 to 4 ft., B&B, twice transplanted 20.30 182.00 |
| 9 to 12 ins., twice transplanted, B.R. specimens \$5.40 \$49.00 | |
| Cedrus deodara (Deodar Cedar) | Juniperus virginiana (Red Cedar) Foliage dense green in spring, darkening to a rich bronze in winter. |
| The Deodar Cedar grows into a fountain of green of unsurpassing beauty. | 9 to 12 ins., once transplanted |
| 15 to 18 ins., once transplanted \$28.00 \$224.00 | Kalmia latifolia (Mountain Laurel) |
| Chamaecyparis lawsoniana ellwoodi (Ellwood Cypress) | Native of the Appalachian mountains. Compact, symmetrial Plants are literally bouquets of lovely, cup-shaped flowers. |
| A trim, compact, narrow pyramid with soft, feathery, bluish-green foliage. | 6 to 9 ins., once transplanted |
| 6 to 9 ins., once transplanted \$14.00 \$112.00 | 6 to 9 ins., twice transplanted 24.00 192.M |
| Chamaecyparis lawsoniana minima glauca (Little Blue Cypress) A beautiful, true dwarf conifer, dark and dense, bluish-green | Libocedrus decurrens (Western Incense Cedar) A tell-growing tree. Grown chiefly for its handsome fragrant ever green foliage and charming habit of growth. |
| foliage. 1 to 3 ins., once transplanted \$14.00 \$112.00 | 9 to 12 ins., once transplanted \$18.00 \$144.00 |
| | Lonicera nitida (Box Honeysuckle) |
| Chamaecyparis pisifera filifera (Thread Cypress) A graceful and attractive tree crowned and covered with slender pendulous branches. | Evergreen shrub to 8 feet. Good hedge subject. 8 to 9 ins., once transplanted \$14.00 \$112.00 |
| 9 to 12 ins., once transplanted \$17.00 \$136.00 | Mahonia aquifolium (Oregon Grape) An ornate little evergreen shrub. Attractive in foliage, flowers and |
| Cotoneaster apiculata (Cranberry Cotoneaster) One of the finest semiprostrate deciduous cotoneasters. | fruit. 3 to 5 ins., once transplanted \$12.00 \$ 96.00 |
| 6 to 9 ins., twice transplanted, B.R. specimens | Mahonia nervosa (Longleaf Hollygrape) |
| 9 to 12 ins., twice transplanted, B.R. specimens | Plants grow 12 to 18 inches tall. Does well in sun or shade. 1 to 3 ins., once transplanted |
| | |

YIIM

\$ 80.00

\$112.00

\$112.00

\$112.00

\$ 88.00

\$ 64.00

\$168.00

136.00

etrical.

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10

UT AND BARE-ROOT EVERGREENS

tock with heavy and vigorous root system.

| | Each | 10 | 100 | 1000 |
|--|-------|----|---------|----------|
| Nandina domestica (Nandina) Characterized by delicate foliage, berries. Height 4 to 5 feet. 3 to 6 ins., once transplanted | | | | - |
| Omanthus delavayi (Delavay Osmanthi Garden aristocrat. Leaves small, fl fragrance. I to 3 ins., once transplanted | owers | | | |
| Osteomeles schwerianae Dainty, light green, fernlike foliage apple blossoms. 3 to 6 ins., once transplanted | | | | |
| fachysandra terminalis (Japanese Spurg Especially valuable as a ground cover. I-yr. plants | | | \$10.00 | \$ 80.00 |
| Pernettya mucronata (Chilean Pernettya Neat evergreen foliage. Height of 4 to Pink-berried, 3 to 5 ins., once | | | | |

| 3 to 5 ins., once | * * * | * * * | 4.2.00 | 4 70.00 |
|--------------------------------------|-------|-------|--------|----------|
| *************** | | * * * | 12.00 | 96.00 |
| orway Spruce) t-known and one of the | | | | \$ 32.00 |

| Fieris japonica (Oriental Pieris) | | |
|-----------------------------------|---------------------------------|---|
| | in a magnificent way with large | 9 |
| clusters and masses of white, | drooping, bell-shaped flowers. | |
| 3 to K inc once transplanted | \$16.00 \$128.00 | ١ |

| | Each | 10 | 100 | 1000 |
|--|----------|---------|------------|-----------|
| Pinus mughus compacta (Mu A dense, stout dwarf everg | | muestic | nable h | ardinass |
| Our trees are the best type | Э. | quosin | 3110010 11 | arannoss. |
| 6 to 9 ins., twice transplant B.R. specimens | | \$6.80 | \$61.00 | |
| These are sheared, finished | specimen | ns and | are su | perlative |
| plants for lining out, potting unusual opportunity for secu | | | | |

| Issudotsuga douglasi (Douglas Fir) Colorado sliver-gray strain, considered the | e best | for or | namental |
|--|--------|---------|----------|
| 3 to 6 ins., once transplanted | | \$10.00 | \$ 80.00 |
| Taxus cuspidata (Japanese Yew) One of the most satisfactory of all dwarf eve | rgreer | ıs. | |
| I to 3 ins., once transplanted | | \$12.00 | \$ 96.00 |
| 3 to 6 ins., once transplanted | | 15.00 | 120.00 |
| Their assidentatio (American Ashanitan) | | | |

| 3 to 6 ins., once transplanted | | 15.00 | 120.00 |
|--|------|---------|----------|
| Thuja occidentalis (American Arborvitae) An old, standard favorite. 12 to 15 ins., once transplanted | *** | \$18.00 | \$144.00 |
| Thuja occidentalis nana (Little Globe Arborvi Adwarf of regular form. | tae) | | |

... \$13.00 \$104.00

| Thuia occidentalis pyramidalis Each | 10 | 100 | 1000 |
|---|----------|----------|----------|
| (American Pyramidal Arborvitae) | | 100 | 1000 |
| Where effective hedges requiring sired, Pyramidal Arborvitae has no | but litt | | are de- |
| 9 to 12 ins., once transplanted 12 to 15 ins., | | \$20.00 | \$160.00 |
| once transplanted | | 25.00 | 200.00 |
| B.R. hedging grade | e for li | ning out | |

| Tsuga canadensis (Canada Hemlock) A well-known conifer of graceful, pleasing habit of growth. 12 to 15 ins., once transplanted |
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| Tsuga mertensiana (Mountain Hemlock) The west's most beautiful alpine conifer. 12 to 15 ins., once transplanted \$24.00 \$192.00 |
| Vaccinium vitis-ideea (Mountain Cranberry) Choice little ground cover having small, delicate leaves and pink bell flowers. I-yr., once transplanted |
| Veronica cupressoides Leaves bright green, giving excellent satisfaction in hedges or specimens. 9 to 12 ins., once transplanted |
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| A very unusual evergreen with russet-green toling ing to a rich golden color in the winter season. | je in sumi | mer turn- |
|--|------------|-----------|
| 5 to 9 ins., once transplanted | \$14.00 | \$112.00 |
| Verenies officinalis (Ground Speedwell) | | |

Florida, Quebec and Alaska.

In today's mail from Connecticut: "I trust this stock will be as fine as the stock I received last spring." (Note: It will be.)

REMEMBER: Sherwood Nursery Co. pays shipping costs on liningout stock to all points in the United States, Canada and Alaska. In other words, the prices here quoted are not cash prices delivered to you. No packing charge on B.R., B&B or lining-out stock. Prices quoted on B.R. and B&B stock are F.O.B. Portland, Ore.

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Veronica hectori

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(It contains complete descriptions)



If we accept the verdict of most botanists and classify all known kinds of platycodon in one species, we have a varied list of material under one label. We find 1-foot plants in varieties nanum and pumilum and plants close to three feet in height in what I have always known as autumnale; colors range all the way from white and milk white through pinkish tones and most shades of blue to purple, and flowers are both single and semi-double. All that I have grown are good garden plants.

What started this line of thought was the arrival the past week of a letter from a correspondent in Japan wherein was mentioned a bal-

pan wherein was mentioned a balloonflower of praecox persuasion with flowers four inches or more across. It made me think that perhaps a variety that I had from a Japanese seedsman about 20 years ago may have survived the war and may again be available. If so, it might pay you to obtain it, at least for trial, for I remember it as a spectacular thing that came true from seeds. Like other praccox forms, it commenced to bloom in August from April-sown seeds when the plants were not over five or six inches tall, and it was breath-taking with its 4-inch flowers. Subsequent years brought a normal flowering period, commencing in June. The colors we

Grass-Leaved Scabiosa

had were white and blue.

While looking over some old garden notes recently, I came upon one about the behavior of Scabiosa graminifolia, and I was surprised after looking at a large number of catalogs to find that it seems to have altogether disappeared from American lists. That being the case, it is probably not often seen in gardens, for it does not linger long in most soils if its one imperative need of perfect drainage is not supplied. That is not as it should be, though, because it is a lovely, silver-leaved subshrub of long-blooming habit that we should have in our gardens.

I remember one plant that grew in our sunny rock garden on a builtup pinnacle for all of 15 years, always lovely in its silvery dress and especially entrancing over the summer months when it produced its pale violet heads on 10-inch stems. Drought, heat or cold do not affect it; only damp affects its cheerful demeanor. It comes readily from seeds, transplants with ease and is permanent under the conditions mentioned. Lime may be provided if one's soil is acid or neutral. It also comes readily from softwood cuttings in July.

Allium Flavum

Yellow-flowered onions apparently are not plentiful in nature; at least I have not found many of them and do not see many mentioned in the

literature. At least two kinds, Allium moly and A. flavum, are sufficiently ornamental to receive the gardener's attention. The former is not hardy enough for us of the north, but A. flavum is not only hardy but its loose clusters of small, bright yellow flowers at the top of slender stems, to 10 inches (usually less) in height, also make an attractive summer ornament. It is especially lovely when grouped with the blue-flowered onions of its season.

Romanzoffia

The waterleaf family is a rather small one, and its number of good garden plants is even more limited. The only important genera, from

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| 4-yr., T., 4 to 8 ins 11.00 55. | 00 ROSA RUGOSA | |
| COLORADO BLUE SPRUCE | 2-yr., plants, | 150.00 |
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| 3-yr., S., 5 to 10 ins 12.00 60. | 00 Scotch Rose | |
| 6-yr., T., (3-3), | 2-yr., plants, | |
| 8 to 14 ins 40.00 200. | 00 12 to 18 ins. 30.00 | 150.00 |

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the gardener's standpoint, that come to mind at the moment are phacelia and nemophila, and they are mostly annuals of the far west. Another member, romanzoffia, is also confined to the Pacific regions, from California to Alaska, where upward of 10 species are recorded. Of these, Romanzoffia sitchensis and R. suksdorfi, the only ones that I have grown, are two little beauties for the careful gardener. In eastern America they thrive best in some shade where they receive constant moisture, and I suspect that the latter condition is a requisite of their permanent well-being in our climate, though westerners speak of their being lovelier and more dwarf in the drier situations in which they are found in nature. It is my opinion that we of the east do not want to take the word "drier" too literally, though, if we expect the plant to stay with us.

R. sitchensis, the most readily available species, is made up of small, dark green leaves, growing in tufts, from which spring 6-inch stems bearing racemes of velvety, fragrant, creamy-white flowers. It is too difficult for gardeners familiar only with daisies and peonies and should not be sold unless the purchaser has the facilities and knowledge to care for it. But the experienced gardener will know at a glance that he is in the presence of royalty and govern himself accordingly. His royal plant will not let him down. Seeds germinate readily and offer the best means of increase that I know, though division while the plant is dormant should not be difficult.

A Few New Items

As the spring catalogs have come in, I have noticed some new items which should be of interest to American Nurseryman readers, a few of which receive brief mention below.

Shasta Daisy Horace Read appears to be a breadwinner for nurserymen and growers of cut flowers. It comes from the same source as capricious Esther Read and is apparently without any of its eccentricities. Its flowers are pure white in color on sturdy stems, fully double with high centers and produced from June onward. I have observed it during the past two years in northern Michigan, during which time it has shown no signs of tenderness to cold. It commences to bloom in June and continues until winter. I saw some plants the past November, which had been divided earlier in the fall, and they were covered with salable flowers, which were rather short stemmed, apparently because of the

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THE THE THE THE THE THE THE THE

late season and having been divided.

A friend, who saw the new mallow, Hibiscus moscheutos Annie J. Hemming, in its home nursery, tells me it is a really spectacular thing in every way, possessing a height of approximately six feet, brilliant red flowers six inches or more across and the summer-long blooming season of most rose mallows. It should prove valuable where moist soil is available.

Whenever I have thought about the matter in the past, I could not bring myself to think that I could like a double-flowered, tall, bearded iris; now that I have seen a picture of the new Samuelson introduction, Double Eagle, I am almost ready to change my mind. Of course, it is much too high priced now for you and me, but it will bear watching. The catalog description reads: Fortyinch stems, mammoth flowers having six to 12 standards, beautifully ruffled and waved, of coppery chartreuse.

All Single Shastas Are Not Alike

Contrary to what some unobserving gardeners think and say, not all single Shasta daisies are alike. In fact there is a wide selection of kinds from which to choose, and it is not for me to tell you which one is best; however, after growing the new Riegel introduction, Mark Riegel, I should like to urge you to try it if you find single Shastas useful in your work. It has the broad, overlapping petals which the Shasta expert wants his plants to have; they are long and slightly curved at the tips, making a flower to five inches across. The daisy's soft yellow center is exceedingly small, and its strong, thin stems become up to three feet in height. All the foregoing, together with a hardiness not possesed by all of the new introductions and a flower of great substance, makes what I consider a really worth-while single Shasta.

Many new bedding violas appear yearly, all no doubt lovely, but not all suited to the hot, dry summers of the United States east of the Rockies. When I grew plants commercially. I made an effort to try all the new varieties as they came on the market, and I doubt whether more than one in a dozen was able to keep comfortable during the summer. So when kinds like Jersey Gem came along, they were received with joy. Now matters have improved, for American plant breeders have been using their talents on the problem and Europeans occasionally have given us one suited to our climate.

If you have not grown the grayish-

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lavender John Wallmark, you are likely to find it one of your most reliable of season-long bloomers. Its long stems hold the blooms well above the foliage, displaying the lovely, rounded flowers to good advantage and making it a splendid cut flower. The clear yellow butterflyshaped flowers of the new Yellow Vixen, on 6-inch stems, may also be expected to delight one from spring until winter. I have encouraging word from the Pacific northwest of a new English bedder called Better Times. The plant, I am told, is a most prolific producer of extralarge flowers from early until late and has a strong constitution. Its color is primrose yellow. If it can stand up under our summer weather. it will be a decided acquisition. Additional notes on new items will appear in future articles.

Verbena Canadensis

There is no accounting for some things. For instance, most gardeners claim that they cannot abide magenta color, and many give this as the reason for not growing Verbena canadensis. Really, though, few forms of the plant that I have seen have even a suggestion of magenta in their make-up. Yet, when V. venosa, which is certainly of a less pleasing shade, was introduced about 15 years ago, these same gardeners hailed its introduction with joy. And I notice that a good number are still using it. I am unable to account for that inconsistency.

One would naturally think from the name that V. canadensis is a Canadian plant, but names on the North American continent have undergone a number of changes since the plant was named by botanists, and we find that its natural range extends from Virginia and Indiana southward. Its color and height are somewhat variable in nature. The form usually seen in gardens is a bright, rosy lilac, a rather pleasing shade in my opinion, and its flowering stems are about a foot in height. Some of the material tried here was too tender for our severe winter, but other material proved to be hardy, showing, I suppose, that plants from the northern and southern parts of its range react as one would expect them to when brought to a cold country. Two named forms, Attraction and Brilliant, tried here a decade or more ago, proved hardy and no doubt could be grown wherever the type does well. Attraction is perhaps best described as fiery rose with a crimson center, and Brilliant is a

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| 24 to 30 ins., B&B | 4.50 | Cotoneaster Apiculata 18 to 24 ins., B&B |
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scarlet self. They, like the parent, bloom from May or June until September, which may account for the short life sometimes ascribed to them. At any rate, such prodigious blooming over so long a period exhausts most plants.

In nature the plant is found in open woods and in dry, sunny fields. Consequently, when transferred to the garden, it does well in light shade or in full sun. Experience here leads to the conclusion that full sun and a fertile soil are always best for profuse blooming over a long period in this climate. The plants are easily propagated in an outdoor frame from cuttings taken in late August and September.

Dodecatheon Meadia

A recent inquiry on Dodecatheon meadia, which was answered by mail, suggests that a brief note on the plant may be of general interest. I recall with much pleasure a large planting of this variable species on a private estate that I visit occasionally, where, in a moist spot along a stream bank, hundreds of plants grow more luxuriantly than I have ever seen them elsewhere. Constant moisture is not necessary for the culture of this plant, of course, but when moisture is deficient, shade is necessary to its well-being, especially if the soil is light. A moist spot will, however, make it perfectly contented in full sun, and it is then that the full beauty of its cyclamenlike flowers, carried in nodding umbels at the top of scapes which grow to two feet in height, is displayed. The flower color is highly variable and runs from white through lavender, rose, lilac and mauve to purple, always with a yellow circle at the center.

When one has a plant of many crowns, each producing a 2-foot scape bearing an umbel of upward of 20 flowers, he has something that would excite the interest of the most jaded gardener (I am told that even gardeners sometimes get in that condition). Perhaps a word of caution about excess moisture is not out of place. It is true that the plant is best when moisture is present throughout the growing season, but the situation should be well drained, so that excess water drains away rather than stands around the crown. For best results the soil should be rich in humus.

MACDONALD NURSERY, congview, Tex., recently held a

Longview, Tex., recently held a formal opening. The nursery will feature azaleas and camellias.

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Reflections on the Progress and Problems of Nurserymen By E. Sam Hemming

SUMMER BULBS

The tremendous selling job given to the spring-flowering bulbs to create their present popularity has only partly carried over to make the summer bulbs, with the exception of the gladioli, as popular. In view of present-day gardening attitudes and inclinations, the showy, easy-to-grow plants are the ones that will be most in demand.

The summer bulbs are, in the main, different from the tulips, daffodils and hyacinths in their form, showiness and ease of handling; yet, they can be handled and treated similarly. Many of them, with the exception of the lilies, which will not be discussed at this time, are tropical introductions and usually are from a section of Africa or South America where there is a pronounced dry season. This dry season is their dormant season and corresponds to the winter dormant season in the temperate zone.

Gardeners can rightly argue that the gladioli have been hybridized and preferred even more than the tulip but chiefly as a greenhouse or an outdoor, cut flower crop. Gladioli are hard to use in the landscape, even in the flower border; in fact, the majority of gardeners plant them in rows as part of the vegetable garden. The little types, called montbretias, grow well in sunny, flower borders.

The next favorite summer bulb is the tuberous begonia, which Californians have used widely. The culturing of the plants is not easy because they seem to demand a contradiction—shade, moisture, sun and peaty soil. These beautiful camellia-like flowers are now desirable throughout the country, both as pot subjects and as garden plants.

The canna is a strange flower and has been the victim of a peculiar circumstance. The name has become associated with extreme provincialism. Whether or not one likes cannas, no flower deserves that fate. It is true that the heavy, coarse leaves prevent it from being an easy subject to use; nevertheless, its long period of showy flowering often adds color when it is lacking otherwise.

Perhaps an effort should be made to use it more gracefully, as in the back of a perennial border. There the coloring would be effective.

The dahlia is like the gladiolus in the fact that it is not thought of as a landscape plant. It is more the plant of hobbyists and flower show exhibitors; however, the little dwarf and pompon forms can be used in the border, where they can suffer through considerable drought and still pay dividends.

The summer bulbs previously mentioned are all tender and must be taken up in the fall and stored, but hardy lycoris does not. Here is one

of my favorites-the ghost lily, or Lycoris squamigera. It is one of the most satisfactory permanent perennials ever grown. These past 20 years or more the straplike leaves appeared and were followed each August by clusters of pink, lilylike flowers on 2-foot stems. At first I did not like the common Lycoris radiata with its red, spidery flowers, but when well treated, it can be attractive. The bulbs multiply like common iris. The past year the United States Department of Agriculture sent us a new, unnamed lycoris for testing and propagating. It has pretty pink flowers on short stems and looks like a worthy addition to the garden if propagation proves successful.

The tuberose, desired in old-fashioned gardens for many years, is an attractive, sweet-scented, white flower, long considered a tender bulb, and it has been noted that when gardeners are careless and leave it in the ground during the winter, it will generally appear in the spring.

Every once in a while, plant ex-

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| 5 to 6 ft | | Tsuga canadensis | | |
| 3 stems and up\$ 30.00 | | 4 to 8 ins., trans., 2-2 1 | 5.00 | 120,00 |
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| 3 stems and up 40.00 | | o to an inter, transmit a-at w | 0.00 | 100.00 |
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| | | Tsuga canadensis | 100 | |
| 4 to 6 ft., | *** ** | | 4.00 | 00.00 |
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| 3 to 6 stems 35.00 | | 12 to 18 ins | 8.00 | 65,00 |

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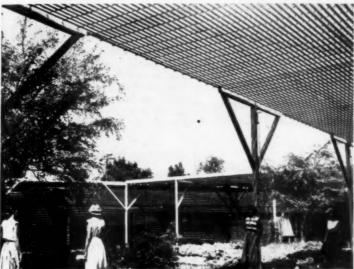
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plorers bring back plants that, because of their spectacular character, attract wide gardening interest. Such was the hardy eremurus, or foxtail lily, which suddenly became a favorite about 20 years ago, although known to gardeners before that. It is certainly spectacular and different, but it is odd that it became fashionable while cannas are sneered at.

Numerous other summer bulbs can be used in the landscape picture, and the nurserymen can encourage their use so that the customers' gardens can attain seasonal color without the care of an expert.

ROSE AS NATIONAL FLOWER

The rose should be the national flower of the United States, according to three out of every four Americans polled during a recent nationwide opinion survey. The United States is the only major nation which has no official floral emblem.

The survey, conducted by Public Opinion Polls, Inc., New York city, listed the national flower query last among 11 general questions for the purpose of determining the preferences and buying habits of American gardeners.

The rose was chosen as the national flower by 74.3 per cent of those answering the questionnaire. Of the 26 other flowers mentioned, none polled as high as 3 per cent. The total of all votes for flowers other than the rose amounted to 17.8 per cent, with only 7.9 per cent expressing no preference. Few other flowers received more than scattered votes. The chrysanthemum was the second choice, followed by gladiolus, dogwood, goldenrod and lily.

PEAT MOSS PLAN DROPPED

The proposal of the United States Department of Agriculture to amend the regulations of quarantine 37, in order to permit the entry of plants grown in "peat moss or other approved packing materials," has been withdrawn. The department stated that it has reconsidered the proposal and will take no further action to adopt the amendments recently proposed.

The American Association of Nurserymen has opposed the adoption of this proposal because of the risk of importation of foreign plant pests. The present decision means that importation of plants re-established in peat moss or other packing materials will no longer be permitted even on an experimental basis.

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Above photo shows results of California Spray-Chemical research tests when chrysanthemum (upper half) and carnation cuttings (lower half) were treated with ORTHO-CIDE. In each case the two on the left are untreated and the two on the right are ORTHOCIDE treated.

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| Cotoneaster Repens, extra nice | 121/20 |
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| Thuja (Arborvitae). Long as they last. | |
|---|--------|
| *Americana Nigra Compacta, 6 to 10 ins20c | 181/2c |
| *Elegantissima, 6 to 10 ins | 181/2c |
| *Lutea George Peabody, 6 to 10 ins | 181/2c |
| *Woodward Globe, 6 to 10 ins | 181/2c |
| Woodward Globe20c | 181/2c |

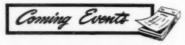


GRESHAM'S NURSERY

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R. F. D. No. 9 RICHMOND 25, VA.



MEETING CALENDAR

May 5, landscape maintenance school, New York Agricultural and Technical Institute, Alfred, N. Y.

May 5 to 8, Western chapter, National Shade Tree Conference, Hotel Claremont, Oakland, Calif.

May 16 to 18, Florida Nurserymen and Growers Association, Biltmore Terrace hotel, Miami Beach, Fla.

May 30 to June 1, Alabama Nurserymen's Association, Admiral Semmes hotel, Mobile, Ala.

May 31 to June 2, annual short course for commercial florists and nurserymen, Southwestern Louisiana Institute, Lafayette, La.

May 31 to June 2, annual short course, Texas Association of Nurserymen, Texas Agricultural and Mechanical College, College Station, Tex.

June 2 and 3, annual refresher course sponsored by the California Association of Nurserymen, California State Polytechnic College, San Luis Obispo, Calif.

June 21 and 22, Mississippi Florists' and Nurserymen's Association, Buena Vista hotel, Biloxi, Miss.

June 22 and 23, Missouri Nurserymen's Association, Columbia, Mo.

July 18 to 22, American Association of Nurserymen, Hotel Radisson, Minneapolis, Minn.

August 4, New England Nurserymen's Association, Boulevard Nurseries, Newport, R. I.

August 10 and 11, nursery and landscape conference, sponsored by the department of horticulture, Michigan State College; the Michigan Association of Nurserymen, and the Michigan Landscape Conference, Michigan State College, East Lansing, Mich.

August 22 to 24, Southern Nurserymen's Association, Roosevelt hotel, Jacksonville, Fla.

August 23 to 25, Texas Association of Nurserymen, Hotel Texas, Fort Worth, Tex.

August 25 and 26, New York State Nurserymen's Association, Cornell University, Ithaca, N. Y.

August 30 to September 3, National Shade Tree Conference, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

September 7 to 9, California Association of Nurserymen, Hotel Coronado, Coronado, Calif.

October 1 to 3, Texas rose festival, Tyler, Tex.

NEW YORK SCHOOL

The third annual landscape maintenance school will be held May 5 at the New York Agricultural and Technical Institute, Alfred, N. Y. Co-sponsors are the institute and the



DEARBORN INDUSTRIAL LOADER for the FORD TRACTOR

Here's a steady profit producer—a great manpower saver—on many dirt and material moving jobs. The Dearborn Industrial Loader lifts and dumps 9 cu. ft. of material at any height from ground level up to 10½ feet. Two hydraulic cylinders control and stabilize bucket action. The separate hydraulic pump that powers the loader is mounted on the tractor, thus freeing the Ford Tractor's Hydraulic System to operate blades, scoops and other rear-attached tools, even during loader operation.

And the capacity, reach and speed of lift, economy and over-all performance of the Dearborn Industrial Loader are equal to or exceed those of any other loader designed for use with the Ford Tractor.

Yet, with all this, the Dearborn Industrial Loader's low purchase price—low operating cost—make it a profit producer on a wide range of jobs. See it soon at your nearby Ford Tractor Dealer's!



DEARBORN ANGLE DOZER Extends Loader's Uses!

This sturdy six-foot blade handles backfilling, grading, windrowing and clean-up jobs in a hurry. Angle and pitch are easily adjustable . . . blade lifts and lowers hydraulically. Attaches to Dearborn Industrial Loader with low cost adapter unit.

TRACTOR AND IMPLEMENT DIVISION, Ford Motor Company, Birmingham, Mich.



GRAFTED STOCK FOR 1954

| Per 10 | Per 100 | | | |
|------------------------------------|----------|--|--|--|
| CUTLEAF RED JAPANESE MAPLE \$ 7.50 | \$ 65.00 | | | |
| RED JAPANESE MAPLE 7.50 | 65.00 | | | |
| PINK DOGWOOD 6.00 | 50.00 | | | |
| VARIEGATED DOGWOOD (Welchi) 7.00 | 60.00 | | | |
| WEEPING WHITE DOGWOOD 7.00 | 60.00 | | | |
| MAGNOLIA LENNEI 7.50 | 65.00 | | | |
| MAGNOLIA RUSTICA RUBRA 7.50 | 65.00 | | | |
| MAGNOLIA STELLATA 7.00 | 60.00 | | | |
| DWARF WHITE PINE (nana) 6.00 | 50.00 | | | |
| JAPANESE TABLE PINE 6.00 | 50.00 | | | |
| ARBORVITAE ROSENTHALI 5.00 | 40.00 | | | |
| TRANSPLANTS | | | | |

| PIERIS JAPONICA (ANDROMEDA), own roots, | Per 100 | Per 1000 |
|--|---------|----------|
| with small peat ball, 4 to 6 ins | | \$100.00 |
| PYRACANTHA COCCINEA LALANDI (FIRETH | ORN), | |
| well established, own roots, 21/4-in. pots | . 20.00 | |
| PACHYSANDRA TERMINALIS R C | 4.00 | 35.00 |

ILEX CONVEXA (JAPANESE HOLLY), strong, R. C..... 85.00

Cash with order. Prices are F.O.B. Pompton Plains I, N. J. No packing charges. All above material for spring delivery is listed subject to prior sale or crop conditions. Descriptive price list on

RUMMEL NURSERIES

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QUEEN O' the LAKES

Dark Velvety



Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense. Tree Roses topped

with all varieties can survive 15 degrees below zero without protection.

Yellow and Orange Climbers Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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NEW LONDON, CONN.

areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.90 per 1000; \$35.50 per 1000 or more in one shipment.

Available for prompt shipment—late March through November, Shipments anywhere, including Canada.

PEEKSKILL NURSERY Phone: Lakeland 8-5595 SHRUB OAK, N. Y.

Allegany county extension service.

The 1-day school is designed to present up-to-date methods of landscape maintenance to public and private building groundskeepers and homeowners. Aimed particularly at the needs of school custodians and landscape gardeners, the program will feature practical demonstrations on school plantings.

Talks and demonstrations will be centered on lawn maintenance, pruning, use of weed killers in plantings and lawns and simple tests for pH and soil needs. Those attending the school will be encouraged to bring their problems for analysis and solu-

Additional information may be obtained from the chairman, Robert J. Kessler, floriculture division, New York Agricultural and Technical Institute, Alfred, N. Y.

TEXAS SHORT COURSE

The annual short course of the Texas Association of Nurserymen will be held May 31 to June 2 at the Texas Agricultural and Mechanical College, College Station, Tex.

TEXAS CONVENTION

The annual convention of the Texas Association of Nurserymen will be held August 23 to 25 at the Hotel Texas, Fort Worth.

MISSOURI SUMMER MEETING

The summer meeting of the Missouri State Nurserymen's Association will take place June 22 and 23 at Columbia, Mo.

NEW ENGLAND MEETING

The summer meeting of the New England Nurserymen's Association will be held August 4 at Boulevard Nurseries, Newport, R. I., with Rhode Island, Hoogendoorn and Boulevard Nurseries acting as hosts.

Massachusetts, Connecticut and Rhode Island state associations are invited to meet with the New England group.

NEW YORK -SUMMER MEETING

The summer meeting of the New York State Nurserymen's Association will be held August 25 and 26 at Cornell University, Ithaca, N. Y. A. directors' meeting is scheduled August 24, before the general sessions.

EVERGREEN GARDEN SUP-PLY, Parkrose, Ore., recently held a formal opening. Rex Hough is proprietor of the new firm.

Malathion controls:

Aphids

Spider mites

Whitefly

Mealybugs

Thrips

Japanese beetle adult

Four-lined leaf bug

Tarnished plant bug

Rose leafhopper

Potato leafhopper

Soft brown scale

Monterey pine scale

Black scale crawlers

Pine needle scale

Oyster shell scale

Juniper scale

Fletcher scale

Bagworms

Oak kermes

Scurfy scale

Florida red scale

Azalea scale

Magnolia scale

Pine leaf scale

Euonymus scale

Birch leafminer

European pine shoot moth

Tent caterpillar

Lace bugs

Now!

for practically <u>all</u> your insect problems

...one insecticide



Called "one of the safest insecticides to handle" by the USDA, malathion is the first phosphate insecticide to combine high insect toxicity with low mammalian toxicity. Compatible with most other spray materials.

You profit 2 ways

- 1 ... by simplifying your own insect control problems.
- 2... by selling malathion insecticides to your customers... for malathion will solve practically all their garden insect problems.

Write today for complete information on use of malathion on ornamentals. Ask for MALATHION GROWER'S HANDBOOK.

Consult your regular sources of supply for malathion insecticides, packaged by well-known manufacturers under their own brand names. Or write us for suppliers' names.

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AMERICAN Gyanamid COMPANY

Manufacturer of MALATHION Technical AGRICULTURAL CHEMICALS DIVISION 30 Rockefeller Plaza, New York 20, N. Y.

SURPLUS STOCK

Colorado Spruce (Picea pungens), sheared, bushy, well-shaped trees. Certified for shipment outside Beetle Zone. Balled and burlapped stock.

| | | | | | | | | 10 Rate Each | Rate Each |
|------|----|----|----|-----|--|--|---|--------------------|--------------|
| 1000 | 12 | to | 15 | ins | | | | \$1.00 | \$0.80 |
| 800 | 15 | to | 18 | ins | | | | 1.40 | 1.20 |
| 700 | 18 | to | 24 | ins | | | * | 1.60 | 1.45 |
| 350 | 24 | to | 30 | ins | | | | 2.00 | 1.75 |

25 at 100 rate. If you dig, deduct 20c per tree. Nursery pickup only on B&B stock. Bare-root trees packed in moss, deduct 20c each.

SPECIAL—EVERGREEN SEEDLINGS

| | Per | Per |
|------------------------------------|---------|---------|
| | 100 | 1000 |
| Colorado Blue Spruce, | | |
| 2-yr., 2 to 4 ins | .\$2.50 | \$15.00 |
| 2-yr., 4 to 6 ins | | 25.00 |
| Scotch Pine. 2-yr., 2 to 4 ins | 2.00 | 12.50 |
| White Spruce, 2-yr., 4 to 6 ins | . 3.50 | 25.00 |
| | | |

Larger sizes sold out. Packing free; add 10% for postage for less than 500 plants. 25% cash with order.

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R. D. No. I HARBORCREEK, PA.

(Nursery located 81/4 miles east of Erie, Pa., on U. S. Hwy. No. 5.)

LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft. 4000, all transplanted. RED LAKE CURRANTS

Assortment of Large-size Plants for Landscape Planting

Having sold land, will clear this fall.
Inspection and Correspondence Invited.

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Rhododendrons
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Perennials, Roses
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Quality Nursery Stock
 Lining-Out Stock

Root-Thru Plant Pots

SIEBENTHALER OPENS GARDEN CENTER

The Siebenthaler Co., Dayton, O., landscape nurserymen, celebrated its 85th anniversary in March by opening an ultramodern garden center just a few yards from where a log cabin was built by the original Ohio Siebenthaler family in 1807.

The new garden center is a group of California - designed buildings which cover more than 30,000 square feet of space. Here, all types of lawn and garden supplies and plant materials are displayed in attractive settings. A comprehensive illustrated article on the Siebenthaler garden center will appear in the May 1 issue of the American Nurseryman.

Grand opening festivities took place March 26 and featured the planting of a Moraine locust tree, a Siebenthaler specialty, by Herbert Starick, city manager of Dayton. The ceremonies were attended by prominent nursery industry personalities from Ohio and from distant points.

Among the out-of-state visitors were Dr. Richard P. White, Washington, D. C., executive secretary of the American Association of Nurserymen; Howard P. Quadland, New York city, A. A. N. public information director; Arthur H. Hill and William J. Smart, D. Hill Nursery Co., Dundee, Ill.; Howard C. Taylor, Rosedale Nurseries, Eastview, N. Y.; Dr. L. L. Baumgartner, Nursery Specialty Products Co., Croton Falls, N. Y .; Harry E. Malter, Greening Nursery Co., Monroe, Mich.; Hans Rausch, Hinsdale Nurseries, Inc., Hinsdale, Ill., and a host of others. In addition, floral tributes were received from a number of nursery firms.

John D. Siebenthaler, president of the Siebenthaler Co. and currently president of the A. A. N., had this to say about the firm's retail venture: "For many years we at Siebenthaler's have visualized a different type of garden store-a garden center where everything needed by the homeowner to indulge his love of gardening and enjoyment of beautiful plants around his home can be selected. We felt the ideal garden center must be one in which the customer would feel free to roam at his pleasure, surrounded by ideas for better living as well as all types of garden merchandise."

WAYNESBORO NURSERIES, Waynesboro, Va., have recently expanded operations in order to grow more than five million trees and plants, including 800 varieties.

HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American Arborvitae, Balsam Fir

| | | | P | er 100 | Per 1000 |
|-------|----------|-------|---|--------|----------|
| 2 to | 4 ins., | sdlgs | | \$1.00 | \$ 5.00 |
| 3 to | 6 ins., | sdlgs | | 2.00 | 10.00 |
| 6 to | 9 ins., | sdlgs | | 3.00 | 20.00 |
| 9 to | 12 ins., | sdlgs | | 7.00 | 45.00 |
| 12 to | 18 ins., | sdlgs | | 9.00 | 70.00 |

All first-quality stock, well-rooted and packed in sphagnum moss.

Send for trade list. Cash, please.

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A very complete line of Quality Ornamental Stock.

Come to see us.

Send us your Want List.

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Ph. Princeton 1-1776 PRINCETON, N. J.

QUALITY MERCHANDISE AT REASONABLE PRICES

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ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skancateles, N. Y.

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SUGAR — SCARLET
Write for price list.

BAKER'S NURSERIES HOOSICK FALLS, N. Y.

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow **good** evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES

MILES BRYANT STRICKEN

Miles W. Bryant, of Bryant's Nurseries, Princeton, Ill., secretary of the Illinois State Nurserymen's Association, is confined to his home after experiencing what his physician describes as a "slight stroke." Mr. Bryant was stricken late in February and spent several weeks in a hospital before being returned to his home. Mr. Bryant's progress since his return from the hospital has been described as satisfactory.

At a special meeting held March 30, officers and directors of the Illinois association named Victor E. de St. Aubin, of Eugene A. de St. Aubin & Bro., Addison, Ill., to serve as interim secretary in Mr. Bryant's absence. William J. Smart, of D. Hill Nursery Co., Dundee, Ill., was appointed treasurer of the group, a post to which Mr. de St. Aubin was elected at the association's recent annual meeting, to serve during the latter's tenure as secretary.

ARNOLD ARBORETUM DIRECTOR IS APPOINTED

Dr. Richard A. Howard has been named Arnold professor and director of the Arnold Arboretum, Jamaica Plain, Mass., as successor to Dr. Karl Sax. Dr. Howard received the degree of doctor of philosophy from Harvard University in 1942 and after war service was assistant curator at the New York Botanical Garden; assistant professor of botany at Harvard, and most recently professor of botany and head of the department of botany at the University of Connecticut. During the years of World War II, Dr. Howard was in charge of the air force survival training program and responsible for the establishment of rescue teams and the techniques for living off the land. His botanical interests have been in horticulture and native plants of eastern United States and the tropics of the world.

OHIO CORRECTION

In the report of the Ohio Short Course nurserymen's day (February 15 American Nurseryman, page 13), results of experiments with TCA were erroneously stated. The results were actually as follows: In experiments at Ohio State University using 20 pounds of TCA to the acre to control quack grass in nursery plots, Ilex opaca was the only plant which was injured. Dropping of the foliage occurred on holly in the spring after fall applications of TCA. These plants did, however, completely recover.

SEEDLINGS

| | Per 100 | Per 1000 |
|---|----------|----------|
| Ilex crenata, 2-yr., S. 3 to 6 ins | .\$ 6.00 | \$ 50.00 |
| *Pinus aristata, 4-yr., S. 4 to 6 ins | 7.50 | 60.00 |
| Pinus mugo mughus (True dwarf Tryolean), 2-yr., S. 2 to 4 ins | . 5.00 | 45.00 |
| Pinus mugo mughus, 3-yr., S. 4 to 8 ins | 7.50 | 65.00 |
| Pinus nigra (austriaca), 2-yr., S. 3 to 6 ins | 5.00 | 45.00 |
| Pinus nigra (austriaca), 3-yr., S. 4 to 8 ins | . 6.50 | 60.00 |
| Pinus sylvestris, 2-yr., S. 4 to 8 ins. | 4.00 | 35.00 |
| Pinus sylvestris, 3-yr., S. 10 to 18 ins | . 6.00 | 50.00 |
| Sorbus aucuparia, 1-yr., S. & to 12 ins | . 6.00 | 50.00 |
| Thuja occidentalis, 3-yr., S. 4 to 8 ins | 7.50 | 60.00 |
| Tsuga canadensis, & to 8 ins, T | . 15.00 | 125.00 |
| Viburnum lantana, 2-yr., S. 3 to 6 ins | 5.00 | 45.00 |

Well-established cuttings from 21/4 in. pots.

| | Per 10 | Per 100 |
|---------------------------------------|---------|----------|
| Euonymus carrierei | \$ 2.25 | \$ 17.50 |
| Ilex crenata bullata | 2.25 | 17.50 |
| Ilex crenata helleri | 2.25 | 17.50 |
| Ilex crenata rotundifolia | 2.25 | 17.50 |
| Juniperus glauca hetzi | 2.25 | 17.50 |
| Juniperus horizontalis, Bar Harbor | 2.25 | 17.50 |
| Juniperus horizontalis glauca wiltoni | 2.25 | 17.50 |
| Juniperus suecica | 2.25 | 17.50 |
| Juniperus suecica nana | | 17.50 |
| Taxus media henryi | 2.25 | 17.50 |
| Thuja occidentalis globosa, Howe type | | 17.50 |

Grafted stock from 21/4 in. pots. Spring, 1954, delivery only.

| | Per 10 | Per 100 |
|---|--------|----------|
| Acer palmatum atropurpureum | 7.50 | \$ 65.00 |
| Acer rubrum columnare | 8.00 | |
| Acer saccharum monumentale | 8.00 | |
| Cornus florida alba plena | 6.00 | 50.00 |
| Cornus kousa chinensis | 6.00 | |
| Hamamelis mollis | 6.50 | |
| Juniperus chinensis columnaris glauca | 6.00 | 50.00 |
| Juniperus chinensis keteleeri | 6.00 | 50.00 |
| Juniperus chinensis sargenti | 6.00 | 50.00 |
| Juniperus chinensis sargenti glauca | 6.00 | 50.00 |
| Juniperus squamata meyeri | 6.00 | 50.00 |
| Juniperus virginiana burki | 6.00 | 50.00 |
| Juniperus virginiana canaerti | 6.00 | 50.00 |
| Juniperus virginiana elegantissima | 6.00 | 50.00 |
| Juniperus virginiana glauca | 6.00 | 50.00 |
| Juniperus virginiana kosteriana | 6.00 | 50.00 |
| Juniperus virginiana pyramidiformis hilli | 6.00 | 50.00 |
| Juniperus virginiana schotti | 6.00 | 50.00 |
| Magnolia rustica rubra | 7.50 | 65.00 |
| Magnolia soulangeana nigra | 7.00 | 60.00 |
| Magnolia stellata | 7.00 | 60.00 |
| Parrotia persica | 6.50 | |
| Tsuga canadensis pendula | 6.00 | 50.00 |
| Viburnum burkwoodi | 6.00 | |
| Viburnum carlesi | 6.00 | |
| Viburnum fragrans | 6.00 | |

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MOUNTAIN VIEW, N. J.

ROSA MULTIFLORA JAPONICA

Hardy northern-grown seedlings. Upright, thorny type for stocktight living fences, conservation and understock. We select our seeds for trueness to type. The plants are excellently grown.

Taking Orders Now for Fall, 1954, and Spring, 1955

BROOKVILLE NURSERIES

GLEN HEAD, N. Y.

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Turner Road C. HOOGENDOORN

Newport, R. I.

Lining-out Stock

Two-year grafts in:

Lilacs in choice varieties (true to name) (sold out)

Rivers' Purple Beech (sold out)

Red Japanese Maple (sold out)

Wistaria Chinensis (blue) Wistaria Rosea (pink)

One-year grafts in:

Japanese Flowering Cherry, Kwanzan (double pink) Juniperus Pfitzeriana Viburnum Carlesi

Two-year transplants in:

Forsythia Spring Glory (new) Ilex Convexa (cuttings) Prunus Maritima (Beach Plum)

One-year transplants in:

Juniperus Hetzi Magnolia Soulangeana (grown from cutting) Regel Privet (genuine)

Seedlings in:

Prunus Maritima (Beach Plum) Viburnum Carlesi

Ask for complete list on LINERS and FINISHED STOCK. Your inspection is cordially invited at any time.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

COVER ILLUSTRATION

Ulmus Carpinifolia Koopmanni

Ulmus carpinifolia, one of the English elm species, is fairly well-known in the trade, either in the species or some of its varieties. The Koopmann smoothleaf elm is less well-known, seldom produced in commercial nurseries and limited mainly to arboretum plantings.

In habit of growth, it is a small tree with a dense oval head, as shown in the cover illustration. The branches are often somewhat corky and grayish in color. The plant is densely branched, with many small branches. The leaves are somewhat smaller than those of the species, doubly toothed, grayish green beneath and dark green above.

The Koopmann elm was introduced from Turkestan sometime before 1880 and was named after the German horticulturist, Karl Koopmann. The generic name, ulmus, is the ancient Latin name of the elm tree. The species name, carpinifolia, refers to the fact that the foliage is similar to that of carpinus.

Another variety of the smoothleaf elm, which is similar to the Koopmann elm, except that it is more roundheaded, is the globe smoothleaf elm, Ulmus carpinifolia umbraculifera. This variety is more common than the Koopmann elm and somewhat more useful in landscape plantings.

Little information is available regarding the cultural requirements of the Koopmann elm, but they are probably similar to those of the species. If so, Koopmann elm is not particular as to soil type, transplants readily, is hardy and, no doubt, subject to the common insects and diseases of elms. Propagation is by grafting or budding.

The Koopmann elm is limited in its use as an ornamental plant. It can be used as a specimen on large home grounds and in parks, but it will have limited use on the smaller home grounds and for street planting.

L. C. C.

PUERTO RICAN FARM LABOR PROGRAM TO EXPAND

Simplification of procedures for hiring seasonal farm workers from Puerto Rico is expected greatly to increase the use of such workers this season, according to farm labor specialists. There has already been a 300 per cent rise in the number of Puerto Ricans working on mainland farms since the program was launched in 1949 through an agreement between the farm placement

-OUALITY LINERS-

| Sournit ninnus | |
|--|----|
| Douglas Fir Per I 4 to δ ins., transplants\$15. | |
| Canadian Hemlock 4 to 8 ins., transplants 17. | 50 |
| Colorado Blue Spruce 4 to 8 ins., transplants 17. | 50 |
| Mugho Pine 4 to 8 ins., transplants 20. | 00 |
| Blue Hetz Spreading Juniper 6 to 8 ins., transplants 22. | 50 |
| Taxus (best popular varieties) 6 to 8 ins., transplants 25. | 00 |
| American Holly 6 to 12 ins., transplants 27. | 50 |
| Viburnum Carlesi 4 to 8 ins., transplants 35.6 | 00 |
| Rhododendron Hybrids (from seed) 4 to 10 ins., transplants 45.0 | |
| Pink-flowering Dogwood 6 to 10 ins., bedded grafts. 65.10 to 15 ins., bedded grafts. 75.0 | 00 |
| | |

Send for new Spring List

POSSUM HOLLOW NURSERIES

6327 Magnolia St. PHILADELPHIA 44, PA.



HARDY ILEX OPACA

We have choice named varieties which have been widely used by many eastern nurseries. Root-bound holly liners out of 3-in. pots or deep soil cans, from 6 to 10 ins. high. Also rooted cuttings. Ilex Cornuta Burfordi, Franklinia rooted cuttings and 2-yr. liners. Arctostaphylos, out of 3-in. pots. We guarantee true to name and a reliable year-after-year source of proven

varieties.
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PRIVET and BERBERIS

Splendid Stock
Write for Special Quotations
LESTER C. LOVETT
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EVERGREENS

Seedlings and Transplants
For Spring and Fall, 1954
Write for Price List and Planting Guide.

CLEARFIELD BITUMINOUS COAL CORP.

Department of Forests
INDIANA, INDIANA CO., PA.

TAXUS

Upright, 4 to 14 ft. Truckloads only, no boxing.

BULK'S NURSERIES BABYLON, L. I., N. Y.

FIELD-GROWN NURSERY STOCK — SPRING, 1954



Juniperus Glauca Hetzi 12 to 15 ins., 3-yr.



Chamaecyparis Lawsoniana Aurea 3-yr., transplant.



Koelreuteria Paniculata (Golden-Rain Tree) 12 to 18 ins., 3-yr.



| 6 40 | | | | |
|--|---|---|-----------------|--|
| 6 40 | | | | 0 rat |
| 6 40 | | | | Each |
| 5 to | Ghent (pont | ica), beds. | 2-yr., X | 80.2 |
| | 8 ins., 3-yr | ., XX, fle | ld | 4 |
| 8 to | 10 ins., 4-yr mollis, beds, | ., XX, fle | ld | 6. |
| Azalea | mollis, beds. | 2-yr., X. | | 1 |
| 5 to | 10 ins., 2-yr 10 ins., 3-yr 12 ins., 4-yr 15 ins., 5-yr | X | | 2 |
| 8 to | 10 Ins. 3-VI | . X. br. | | 4 |
| 10 to | 12 ing 4. vr | XX br | | 6 |
| 12 to | 15 ing 5-yr | VV br | | 1.3 |
| Azalaa | nonkhonone | a bode | | .2 |
| Azaloa | poukhanens schlippenbac | abl bode | 9 | .2 |
| Diete | rientalis aur | mi, beas. | Z-YE., A | |
| Diota o | rientalis aur | ca. | | - |
| 4 10 | 6 ins., 1-yr. | , X | ******* | 2 |
| 6 to | 8 ins., 1-yr. | , X | | 3: |
| Buxus | empervirens | welleri, | | |
| 1-yr., | X 10 ins., 3-yr. | | | 2. |
| 5 to | 10 ins., 3-yr., | . X | | . 4 |
| Chama | ecyparis laws | soniana a | ilumi. | |
| 10 to | 12 ins., 2-yr | X | | 3 |
| 12 to | 12 ins., 2-yr 15 ins., 3-yr | . XX | | . 4 |
| 15 to | 18 ins., 2-yr. | XX | | .5 |
| Chama | ecyparis law | ioniana a | UPAG | +65% |
| | 15 ins., 2-yr | | | .4 |
| 15 to | 18 ins., 3-yr | ., V | | .5 |
| Chama | ecyparis plus | | | +470 |
| | ecyparus piur | nosa aure | 16, | 9. |
| 5 to | 8 ins., 2-yr | or allerance | | .3. |
| 8 10 | 10 ins., 3-yr | AA | ****** | .42 |
| | | i coloratu | | |
| Euon 5 10 12 Euon 10 Euon 4 6 6 Euon | o 12 ins. 1-3 rmus fortune 0 10 ins. 1-3 0 12 ins. 2-3 0 18 ins. 3-3 rmus patens. 0 15 ins. 3-3 rmus radican 0 6 ins. 1-3 0 8 ins. 1-3 rmus vegetus | r., X l erectus, r., X s colorati | 18, | .22 .28 .35 .55 |
| Euon 10 12 Euon 10 Euon 4 6 Euon 8 | o 12 ins., 1-3 rmus fortune o 10 ins., 1-3 o 12 ins., 2-3 o 18 ins., 2-3 rmus patens, o 15 ins., 3-3 rmus radican o 6 ins., 1-3 o 8 ins., 1-3 rmus vegetus o 10 ins., 2-5 | r. X. I erectus, r. X | 48 ₉ | .20 .28 .35 .55 .18 .22 |
| Euon 5 10 12 Euon 10 Euon 4 1 6 6 Euon 8 10 | o 12 ins. 1-3 rmus fortune 0 10 ins. 1-3 0 12 ins. 2-3 0 18 ins. 3-3 rmus patens. 0 15 ins. 3-3 rmus radican 0 6 ins. 1-3 0 8 ins. 1-3 rmus vegetus | r. X. i erectus, r. X. r. X. r. X. r. X. r. X. r. X. s colorati r. X. | 45. | .20 .28 .35 .55 |

| Juniper, Andorra, | _ | | | | | | | | | | K | rat |
|--|-------|-------|-------|----|-----|----|----|-----|------|-----|---|-------|
| 6 to 8 ins., 1-yr., | X | | | | | | | ė | | | ! | \$0.2 |
| 8 to 10 ins., 2-yr., Juniper, Golden Pfitz | X | | | | | | | | | | | .3. |
| 6 to 8 ins., 2-yr., | er, | | | | | | | | | | | |
| 6 to 8 ins., 2-yr., | X . | * | | * | | | * | | | | | .3 |
| Juniper, Irish, | - | | | | | | | | | | | - |
| 8 to 12 ins., 2-yr., | X | | 2. 5. | * | * 1 | | * | × | | | | .8 |
| 12 to 15 lns., 3-yr., | X | | | | | | | * | * | | | .4 |
| 15 to 18 ina., 4-yr., | A | 13 | ٤. | 2 | * | | * | | | | | .5 |
| Juniperus fastigiata | | - 2 | | | | | | | | | | |
| (Compact Irish J | | | | | | | | | | | | |
| 8 to 12 ins., 2-yr., | 75 | | 0.79 | × | * * | | * | n | e. 1 | . * | * | .3 |
| 12 to 15 ins., 3-yr., Juniperus glauca heta | A | | | * | * * | * | * | * | * * | | 8 | .5 |
| Jumperus grauca netz | No. | | | | | | | | | | | .3 |
| 10 to 12 ins., 2-yr., | A. | | | | * * | | * | * | | | | . 3. |
| 12 to 15 ins., 3-yr., 15 to 18 ins., 4-yr., | 2 | | | | | | * | * | | | | .5 |
| Juniperus stricta. | ~ | 8 | | * | * 1 | | * | ٠ | 20 | | | .7 |
| 6 to 10 ins., 2-yr., | v | | | | | | | | | | | .3 |
| Juniperus virginiana | 20 | | | • | | | | • | | | * | . 05 |
| Juniperus virginiana, 6 to 10 ins., 3-yr., | V | | | | | | | | | | | .13 |
| Koelreuteria panleula | to | | | • | | | | * | | | * | . 8.0 |
| (Golden-rain Tree | | | | | | | | | | | | |
| 2-уг., Х | - / 0 | | | | | | | | | | | .13 |
| 8 to 12 ins., 3-yr., | × | | | | | | | * | | | * | .13 |
| 12 to 18 ine 3-vr | ¥ | | | * | • • | | | | | | | .2 |
| 12 to 18 ins., 3-yr., Larix europaea (Euro | ne | a | n | ì | | 20 | el | 'n | 1 | | | 4.40 |
| 6 to 10 ins. 2-vr | X | - | ** | _ | - | | - | | Ex | | | .10 |
| 6 to 10 ins., 2-yr., Larix leptolepis (Jap. | L | 81 | re | ĥ | 1. | | | • | | | | |
| 6 to 10 ins., 2-vr., | S. | | | | | | | | | | | .15 |
| 10 to 18 ins., 3-yr. | 8 | Š | | - | | Ĭ. | | | | | | .11 |
| Leucothoe catesbaei. | | | | | | | | | | | | |
| 2-yr. X, field beds. | | | | | | | | | | | | .3 |
| 5 to 10 ins., 3-yr., | X | | | | | | | | | | | .41 |
| Pachysandra termina | lis | | 2. | y | T. | | 3 | c | | | | .1: |
| Piono exceles (Norma | 20 1 | œ. | 3.01 | - | 00 | | | | | | | |
| 4 to 8 ins., 3-yr., | X | | | | | | | | | | | .16 |
| 8 to 10 ins., 4-yr., | X3 | K. | | | | | | | | | | .11 |
| 4 to 8 ins., 3-yr., 8 to 10 ins., 4-yr., 10 to 15 ins., 4-yr., | X3 | X. | | | | | | | | | | .26 |
| гисы ринксия кинисы | | | | | | | | | | | | |
| (Colorado Spruce |). | | | | | | | | | | | |
| 4 to 6 ins., 3-yr., 3 | ٤. | | | | | | | 8.1 | | | | .11 |
| 6 to 10 lns., 4-yr., | к. | | | | | | | | | | | .24 |
| Pieris Japonica, | | | | | | | | | | | | |
| beds, 2-yr., X | | | | | | | | 6 | | | * | .2 |
| 6 to 10 ins., 3-yr., 2 | £, | n | el | d | * 1 | | * | 10 | | 8 | | .4 |
| Pinus mugho, | | | | | | | | | | | | |
| 4 to 6 ins., 3-yr., X | | | | | | 6 | | | 6.6 | | * | .10 |
| Pinus niera (Austrian | P | 19.00 | 10 | ١. | | | | | | | | |
| 2 to 4 ins., 2-yr., | 8 | | | | | | | | | | | .16 |

Juniperus pfitzeriana compacta 100 rate (Nelson Blue Pfitzer variety) Each

| Description to be a second | 1 | 00 ra |
|---|-----|---------|
| Pyracantha coccinea lalandi, | | Eac |
| 8 to 12 ins., 2-yr., X | * * | 80.2 |
| Rhododendron catawbiense, | | |
| 2-yr., X, field beds | | |
| 3 to 5 ins., 3-yr., XX | | |
| 5 to 8 ins., 3-yr., XX | | ! |
| 8 to 10 ins., 4-yr., XX | | |
| Rhododendron hybrid, 2-yr., X, field beds | | |
| z-yr., X, neid beds | ** | |
| 6 to 8 ins., 3-yr., XX | | ! |
| 8 to 10 ins., 4-yr., XX Rhus cotinus (Smoke Tree), | * * | ! |
| 4 to 8 ins., 2-yr., X | | |
| 4 to 8 ins., 2-yr., X | * * | ! |
| 8 to 10 ins., 2-yr., X | * * | 1 |
| laxus media hicksi, | | |
| 6 to 8 ins., 1-yr., X | * * | |
| 8 to 10 ins., 2-yr., X | | |
| Thuja occidentalis | | |
| (American Arb.), | | |
| 10 to 12 ins. 3-yr., X | | 1 |
| 10 to 12 ins. 3-yr., X | | |
| 15 to 18 ins., 3-yr., XX | | 4 |
| fhuja occ. douglast aurea | | |
| (Golden Arb.), | | |
| 4 to 6 ins., 1-yr., X | | 1 |
| 6 to 8 ins., 2-yr., X | ** | |
| fhuja occ. douglasi pyramidalis, | | |
| 8 to 10 ins., 3-yr., X | | |
| 10 to 15 ins., 3-yr., X Thuja occ. elegantissima lutea | | e |
| l'huja occ. elegantissima lutea | | |
| (Geo. Peabody Arb.), | | |
| 4 to 6 ins., 1-yr., X | | 2 |
| 6 to 8 ins., 2-yr., X | * * | |
| 8 to 10 ins., 3-yr., X | | |
| | | 4 |
| Phuja occ. globosa (Globe Arb.), | | |
| 6 to 8 ins., 1-yr., X | | 1 |
| 8 to 10 lns., 2-yr., X | * * | 1 |
| Thuja occ. pyramidalis | | |
| (Pyramidal Arb.), | | |
| 6 to 8 ins., 1-yr., X 8 to 10 ins., 2-yr., X | | 8 |
| 8 to 10 ins., 2-yr., X | | |
| 10 to 15 lns., 3-yr., A.A | | 4 |
| ľsuga canadensis (Hemlock), | | |
| 6 to 8 ins., 3-yr., X | | 1 |
| Viburnum opulus, | | |
| 6 to 10 ins., 1-yr | | |
| 10 to 16 ins., 2-yr., X | | 1 |
| 18 to 24 ins., 3-yr., X | | 1 |
| (Less 10% 1000 rate, 300 at 10 | 00 | rate. |
| Iburnum opulus nana, | | |
| 2-yr., X. field | | 2 |
| (Less 10% 1000 rate, 300 at 100 | 0 . | - A - N |

TERMS: Cash with order-free packing; otherwise, 1/3 deposit with order and balance C.O.D. All shipments by railway express.

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service of the United States employment service and the Puerto Rican department of labor.

The farm placement service recently reported to Fernando Sierra service believes that many mo Berdecia, secretary of labor of Puerto small farmers can now be served. Rico, that many small farmers were reluctant to use Puerto Rican workers because of the difficulty involved in securing a performance bond.

The Puerto Rican government then agreed to drop the bond requirement for independent employers of 20 or fewer workers. The farm placement service believes that many more

Details of the arrangement under which Puerto Rican workers are available may be secured from any state employment service local office.

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Rhododendron — Kalmia Azalea

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Per 100 Per 1000 1000 2-yr., T., 6 to 12 ins. \$27.50 \$250.00 Packing at cost.

FAIRVIEW EVERGREEN NURSERIES FAIRVIEW, PA.

CHARLIE CHESTNUT

[Continued from page 16]

"Heres the stuff we took out of their pockets Emil," one deputy says. "Here's your billfold, heres one wad of \$30 and heres another roll of \$180."

"\$180?" Emil says with his eyes popping out. "Where did you find that?" Emil says to one of the rob-

"Where you had it hid up on the closet shelf," he says. "It was under a lot of old wool sox. Thats a poor place to hide anything," he says. "We always look in closets first."

"You wont be looking in any closets for a long time," the deputy says, "not where you are going.

'Cant figure out where that \$180 come from," Emil whispered to his Mrs. "Did you put it up there?"

"If I would have known that was there do you think I would be so foolish not to get it out of there before this?" Emma says.

"I must have put that there last spring and forgot all about it," Emil says. That dont sound reasonable the members will all say knowing how Emil is always short of cash. However once in a great while on a weekend Emil gets in some cash and he must of just laid it up there some night when he was half asleep and tired out and never thought of it again.

There was a big parade down to the jail. I drove the robbers car, Emil drove his car and the two robbers rode with the deputies.

"It might pay to take a day off and make a good thoro search of the house," I told Emil as we waited at the jail. "We might find enough to pay off the mortgage if we done a real good job," I says.

"That must be the money we took in when Dr. Metcalf paid his bill last spring. I remember he paid in cash. His bill was \$200 and he took off for that blue spruce that died, remember Chas?" Emil says.

George Pound was there at the iail. "Well Emil," he says, "I sure appreciate your cooperation. Looks like I will collect \$100 reward money. Me and the Mrs. can use that. Guess I will buy that television we been wanting," he says.

"What did you do to earn any reward George?" Emil says. "I am the one to get the reward. I am the one who furnished the trap to catch the robbers, and I am the one that was tied up, and I am the one who was robbed. You didnt do nothing but sit there and wait."

As it turned out Emil got \$50 special reward from the Lake Park

ORNAMENTAL EVERGREENS

Trees and Shrubs

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Large, field-grown stock, dug fresh for each order.' Write for list of 150 varieties. Member A. A. N.

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Austrian Pine, 2-yr., 4 to 7 ins., \$4.00 Sectch Pine, 2-yr., 4 to 6 ins., 4.00 Norway Spruce, 3-yr., 6 to 10 ins., 5.00 Norway Spruce, 2-yr., 4 to 7 ins., 4.00 All orders subject to prior sales. S STRICK & ALLYN CO.

GROWERS

EVERGREEN TREE LINING-OUT STOCK Spring, 1954 and Fall, 1954

SUNCREST EVERGREEN NURSERIES

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ILEX bullata, 6 to 8 ins., 2-yr., T. \$15.00 8 to 10 ins., T...
PIERIS Japonica, 4 to 6 ins., T...
6 to 8 ins., TT...
Send for List of Unusual Plants

ALANWOLD NURSERY NESHAMINY, Bucks Co., PA.



MALLOW OF HARDY HIBISCUS ANNIE J. HEMMING

Plant Patent 835

A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in June, July and August—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business. 2-yr., No. 1 Plants

\$17.50 per 10; \$150.00 per 100; \$1.250.00 per 1000.

Color plate available.

Attractive metal plant patent tag attached to each plant.

EASTERN SHORE NURSERIES, INC.

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EASTON, MD.

paper for an exclusive interview. That is the money he used to go to the convention last winter. And as for the story he told at the convention in regards to the robbery, the members can now have all the true facts instead of the wild tale that Emil handed out at the convention.

"Now will you believe what it said in the horoscope, Chas.?" Emil says, "remember what it said Chas.?—to watch out for a crisis on the 16th."

POWER IN GARDEN TOOLS

The rapid expansion of public interest in gardening is nowhere more evident than in the sale of power tools. This has zoomed to an estimated billion-dollar industry in the past year or two, according to an article last month in Barron's, the national financial weekly. The statistics revealed in that article indicate the enthusiastic buying of power equipment by the public.

Volume of sales of power lawnmowers in 1953 rose to a peak of 1,275,000 units, selling for some \$144,500,000. This compared with about 529,000 units sold for some \$65,000,000 in 1949 and only 35,000 units for \$3,000,000 in 1939.

Sales of garden tractors and rotary tillers have reached 150,000 to 175,000 yearly, compared to a sale of only 11,200 units a year in the five years from 1937 to 1941.

Power mower sales of \$10,600,000 in 1953 were reported for Toro Mfg. Co., which expects a rise to \$11,500,000 this year. Reo Motors, Inc., which likewise had sales of \$10,000,000 last year, expects a 15 per centrise in 1954. The Bolens products division of Food Machinery & Chemical Corp., also a \$10,500,000 a year garden tool manufacturer, in tractors and tillers as well as mowers,

SPRING SPECIALS

Shrubs, in good assortment.

Roses, western-grown, including Chrysler Imperial, Carrousel, etc.

Euonymus Radicans Vegetus, 3-yr., 12 to 15 ins. and up, heavy.

Red Raspberries, in variety.

Peaches, 5-N-I Apples, Standard and Dwarf.
Flowering Crab Apples.

Hybrid Lilacs, 12 to 36 ins.

New Trade List includes many other items and caliper-sized ornamentals, large Mugho's, etc. Customer to dig.

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WE OFFER

| Ampelopsis veitchi (Boston Ivy) | Per 100 | Per 1000 |
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| 1-yr., S | \$6.00 | \$40.00 |
| Berberis thunbergi (green 2-yr., S., 4 to 9 ins 2-yr., S., 9 to 12 ins | 5.00 | 35.00 50.00 |
| Berberis thunbergi atropurpurea (Redle 2-yr., S., 4 to 9 ins 2-yr., S., 9 to 12 ins | 6.00 | 40.00 75.00 |

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THUJA OCCIDENTALIS COMPACTA ERECTA

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Write for descriptive folder i color.

THE WESTMINSTER NURSERIES WESTMINSTER, MD.

EVERGREENS

NORTHERN-GROWN

Canadian Hemlock, American Arborvitae, Balsam Fir.

| | Per 100 Per 1000 |
|-------------------------|-------------------|
| 2 to 4 ins., sdlgs | \$ 1.00 \$ 5.00 |
| 3 to 6 ins., sdlgs | . 2.00 10.00 |
| 6 to 9 ins., sdlgs | . 3.00 20.00 |
| 9 to 12 ins., sdlgs | . 7.00 45.00 |
| 12 to 18 ins., sdlgs | 9.00 70.00 |
| 18 to 24 ins., sdlgs | . 25.00 |
| Freshly collected. Well | -rooted, Puddled |
| and packed in sphagn | um moss. Cata- |
| log of plants, ferns, e | etc., on request. |

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4000 Ilex Crenata Rotundifolia, 4 to 8 ins., rooted in summer of 1953, some with small side branches, 7c each. No shipping, Terms: Cash.

Taxus and other rooted cuttings at competitive prices.

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ROSA MULTIFLORA—Best thorny, upright type from selected midwest fence parent stock.

Per 1000
Per 1000

2/16 to 3/16-in, cal., 12 to 15 ins. \$15.00

Above Multiflora prices apply on units of 1000 plants only. No discount regardless of quantity ordered.

SPECIAL—EXTRA-HEAVY MULTIFLORA—5/16 to 1/2-in, cal., well branched—our "Country Club" grade—IIc each per 100 or more.

Our Pine seedlings are good-calipered little fellows. The right size for banding, potting or transplant beds. If you have tried to buy finished pines lately, you know they are a good investment.

Each per 1000

Pinus resinosa (Norway Pine).

Pinus strobus (White Pine).

Pinus sylvestris, heavy caliper. Best good-color, fast-growing type Scotch Pine.

Ulmus pumila. And they are straight as a string.

(Siberian or Chinese Elm)

2-yr., | 2 to 4 ins.
2-yr., | 2 to 18 ins.
2-yr., | 2 to 18 ins.
2-yr., | 2 to 3 ft.
2-yr., | 2 to 3 ft.
2-yr., | 3 to 4 ft.

Samples on request. Specify varieties in which interested and send \$1.00 to cover mailing.



FORREST KEELING NURSERY ELSBERRY, MO.

Hugh Steavenson, Prop.



ENGLISH IVY

from 21/4-in. pots.

Per 100

Per 1000

\$8.00

\$75.00

Ready for immediate delivery.

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"America's Finest"
Write for Trade List

Springbrook Gardens
MENTOR, O.

expects an increase of 10 to 12 per

cent in sales this year.

Savage Arms Corp., which also makes lawn mowers, expects a 25 to 30 per cent increase. Sunbeam Corp., whose latest innovation is a traveling lawn sprinkler which automatically shuts itself off, sold 9 per cent more garden tools last year than in 1952.

Scoville Mfg. Co., manufacturer of sprinklers, nozzles and hose accessories, sold 45 per cent more last year than in 1952 and looks for a further 15 per cent gain this year. Inland Steel Co., which makes a pick-up cart, expects to sell 10 per cent more this year.

Some smaller firms making only one or two items show decided gains. Roto-Hoe & Sprayer Co. expects to sell \$2,000,000 worth of its power hoe plus sprayer equipment in 1954, nearly double 1953 sales of \$1,230,-000 and nearly seven times sales of \$308,000 in 1951. Lambert, Inc., lawn sweeper manufacturer, gained 50 per cent in sales in 1953 and expects another substantial increase this year. W-W Grinder Corp. reports a jump of 30 per cent in compost grinder sales in February, 1954, over the corresponding month in 1953. H. K. Porter, Inc., whose cutting tools include pruning equipment, reported the largest sales in history in 1953.

The trend toward suburban living has been the biggest factor in the growth of power garden tool sales. Between 1940 and 1950 the population of the 12 largest metropolitan areas in the United States increased by 6,500,000, of whom 4,700,000 newly located in the suburbs; elsewhere the trend was the same. The homeowner with a half-acre in the suburbs is a natural customer for power garden equipment.

In the expansion of the power equipment market, not only have lower-priced machines been instrumental, but also multi-purpose units. These include not only garden tractors to which an increasing variety of gadgets can be attached, but also rotary power mowers which may be converted to leaf grinders and snow throwers. Such devices extend the sales season for power equipment so that spring is no longer the only time of its consumer interest.

How power equipment develops its own market is illustrated by lawnmower production. Hand lawnmowers sold to the tune of a million units in 1942 and have never bettered that figure. In the decade since that year, the power mower, starting from next to nothing, has built up in sales to another million units.

OBITUARY

Clarence William Dawson

Clarence William Dawson, retired Tyler manager of the Texas Nursery Co., Sherman, Tex., died March 27 in a Tyler hospital at the age of 66. He was interested in the improvement of rose culture and was best known in the rose industry as a teacher because of his helpful guidance of novices in the business.

Surviving Mr. Dawson are his widow, a son, two sisters and a granddaughter.

NEW ENGLAND COMMITTEE MEETS

The executive committee of the New England Nurserymen's Association held a meeting March 11, at which plans were made for the forthcoming summer meeting, which will be held August 4 at Boulevard Nurseries, Newport, R. I.

Other business conducted at the executive committee meeting included the election of several new firms to membership. Brentwood Gardens, Rumford, R. I.; Treeland, Inc., Cambridge, Mass., and Snow Cap Mushrooms, Woburn, Mass., are the newly approved members.

The executive committee also made committee appointments and arranged to mail a questionnaire to the membership to aid in the preparation of the program for next year's winter convention.

SAGINAW GROUP MEETING

The Saginaw Valley Nurserymen's Association, Bay City, Mich., held its annual election at the March meeting. New officers are president, James Begick, Begick Nursery, Bay City; vice-president, Donald Rice, Cass River Nurseries, Saginaw; secretary, Theodore R. Laetz, Laetz Hobby Farm, Bay City, and treasurer, George E. Ward, Bay City.

The association meets monthly for the purpose of preventing unfair practices in local buying and selling, being better informed as to the surplus stock of members, educating the consumer to the convenience and advantages of buying from members of the association and promoting better relationships among local nurserymen and landscape men.

WAYSIDE GARDENS NURS-ERY, Brookville, L. I., N. Y., was recently acquired by Dalsimer, Inc., Cedarhurst. The property consists of 30 acres of land and several nursery buildings.

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|---|------|
| Buddleia Dubonnet. Best red-purple, No. 1\$ | 0.25 |
| Buddleia, Red. Nearest red buddleia, No. 1 | .30 |
| Caryopteris Blue Mist. Popular everbloomer, No. 1 | .30 |
| Crape Myrtle, pink. 2 to 3 ft. | .40 |
| Crape Myrtle, red. 2 to 3 ft. | .40 |
| Flowering Quince, Glowing Ember. | |
| Superior strain. 2 to $2\frac{1}{2}$ ft | .45 |
| Superior strain, 18 to 24 ins. | .35 |
| Superior strain, 12 to 18 ins. | .25 |
| Deutzia Lemoinei. 15 to 18 ins. | .35 |
| Forsythia Spring Glory. 2 to 3 ft | .40 |
| 18 to 24 ins | .30 |
| 12 to 18 ins. | .20 |
| Honeysuckle, Zabeli, 2 to 3 ft | .40 |
| Honeysuckle, Zabeli. 18 to 24 ins. | .30 |
| Hydrangea A. G., Snowhill. 18 to 24 ins. | .30 |
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PLASTIC WIGWAMS

[Continued from page 12]

so well that this point is questionable, although it certainly is true with case-grown grafts. In some cases there is a marked difference in the vigor of scion and stock. This is the principle in dwarfing, but it can also be applied the other way around. For example, Tsuga canadensis pendula on its own roots is a low pendulous bush, but when grafted on a vigorous understock, it becomes more like a Camperdown elm in character. Also, various hybrid roses have poor root systems of their own, but, when worked on vigorous stocks, such as multiflora, they become healthy and vigorous. This is why it is seldom wise to root cuttings of hybrids.

Thus, it is up to the grower to select the proper method to produce the result he desires.

None of the various grafting waxes (usually prepared of beeswax, tallow and resin) should ever be used on the union. Melted paraffin, when thinly and carefully applied, appears to have no detrimental effect, but, with the plastic technique, it is not needed and is best left off. The union can be bound with string, rubber bands, raffia, etc., but nothing should be used which will completely suffocate the tissues or strangle the union. Raffia and string must be watched closely, as they strangle. Rubber bands also should be checked, as they often disintegrate and let go before the job is done.

I use plastic tape exclusively, as it is extremely simple to apply and expands with a plant's growth, so that there is no interference with development. I believe that much of the past trouble with union tissue is the result of suffocation, which does not permit normal healthy tissue development at the union. This condition apparently has a lifelong effect of blocking normal movement in the plant. Perhaps, if these cells were studied, they would be found to be incompletely developed and of a cancerous nature. The grease (hydrocarbons) in the wax may also promote trouble.

When to Propagate

Established practice teaches that in forcing under glass we must do the work in January and February when the stock is active and the scion is dormant. Why? Because in the suffocating close case, it is impossible to keep the scion alive for any length of time. The question of when to set the scion has caused more confusion than all others because of this teaching. Let it be understood here that we must disregard close case practices in

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applying the plastic technique; they have no application to the new method.

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Another point is that there is absolutely no foundation in the idea that scion wood cannot be cut when frozen. I took scions of several widely differing species when the temperature stood at 32 degrees Fahrenheit

below zero and compared the resulting plants with scions taken later at an ideal temperature. The frozen condition did not show the slightest effect on the material.

The herbaceous grafting is done when the new shoots have reached the stage where they would make good softwood cuttings, just past the sappy, tender stage. Usually, the scion is snapped off the leading shoot and is inserted by a cleft graft. However. I have also been successful in applying the common veneer method at the crown of roots. In setting these herbaceous scions one must take care that the tying operation does not crush the scion. This technique can also be used on somewhat large trees by applying the plastic top-grafting method. This will be discussed in a future article. By this means the nurseryman can contract to work the established plant of a client, if this is desired.

Much confusion and contradiction exist in writings concerning the proper method of snagging the tops (removing the stock tops). With the plastic technique the present evidence indicates that climate should be the guide. In central New York, where the worst should always be expected, sudden and severe changes with hard freezes occur when plant

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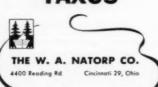
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tissue is still active. If the top of pines, for example, is completely snagged a secondary growth will start in late July because of the extreme vigor forced into the scion by the excessive top removal which has upset the top and root balance. This secondary growth appears as a shoot which possesses extreme vigor, which is tender and active in late season. An untimely freeze with the plant in this condition is certain disaster, and one must either refrain from complete snagging until the second spring or else protect the plants for two or three weeks extra to allow the growth to harden. There are exceptions to the rule, however, and tsuga, pseudotsuga, taxodium and probably larix require quick and complete snagging or the scion will drown out. (There may be others in this class, but this point will require more study.)

Generally speaking, I advise leaving about one fourth of the original stock top until the following season, when the scion starts growth, if the plant worked is a small one (including young transplanted stocks, which, incidentally, are the best to use). If the stock is larger, then at least one third of the original top ought to be left. When large trees are topworked, the snagging may have to be extended over a period of three or four years to prevent injury to the plant from shock. In this case, one should start removing branches from the bottom up in order to push growth up to the scion. One should always graft in the strongest leader, as this is where the strongest flow of sap is. If any side shoot tries to replace the leader, it should be cut back at once.

When late season sets are made, the plants should be considered as budded ones and snagging postponed until the following spring. Otherwise, the plants will perish from shock during the winter.

Where to Propagate

This technique was developed to be used in the free air, out of doors, and naturally this is where it gives best results. However, there are cases when plants must be worked indoors because of a lack of hardiness to a region or because of some other factor which will not permit outside placement. In this event, the device simply replaces the close case and is used on the bench. Because of gas and sunlight penetration of the plastic, there is much less danger of mold or fungus trouble than in the case. But, one must watch out for burning! Sunlight through glass is extremely

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hot, and the wigwam must have adequate shade. If the propagation house is whitewashed, then muslin or cheesecloth shade, used outside in spring, will suffice. Otherwise a heavier shade should be used. In other respects, the plant should be treated just as if it were out of doors. (See December 15, 1953, American Nurseryman.)

When the technique is applied out of doors, the stocks can be (1) linedout, (2) placed in the transplant bed, (3) put in containers or (4) planted in a permanent position. If current practice is to be adhered to, then the transplant bed is probably the best position for larger growers. I use all placements, including the lining-out, and can see little difference. A method tried experimentally which proved most successful and which I prefer is as follows: The stock plants were potted in containers-1-gallon size for subjects of ordinary size and 2 to 5-gallon containers for large subjects. Some of the stocks were worked immediately and the wigwams applied, and others were established for a season before working. Otherwise, the plants were handled as described in the previous article on this subject.

Conclusions Drawn from Experiment

The following conclusions were drawn from this experiment: 1. When the idea catches on this will be the simplest and most efficient method of producing excellent, vigorous grafted plants. 2. The plants grow exceptionally well because there is no secondary setback when permanently placed. 3. In the large 1-gallon containers the plant roots are not cramped and will spread and feed to give excellent growth. 4. The large surface area of the container allows the soil to absorb sufficient oxygen for healthy root development, which has not been possible with the tiny pots in a close case. Often in close case grafting the rootstock dies from smothering after the graft has been successfully made. 5. A good soil mixture, which is fibrous to facilitate easy air penetration, is essential. Sphagnum moss and expanded mica have been added with excellent results, experimentally, but peat moss is likely to waterlog and injure the roots. 6. If the scion is so veneered that its butt extends into the medium in the container (a little sand should be put around the base of the scion), the scion will quickly go on its own roots, when this is desirable. In other words, an inarched cutting system is used. 7. Little difference occurs between the plants worked immediately and those established after two seasons' growth, provided reasonable

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care is exercised to prevent root loss at potting time. 8. The same clean healthy union tissue is obtained as in ground worked material. This leaves us with the conclusion that the proper atmospheric penetration to the tops and roots and the complete solar spectrum radiations are essential to good results. It is notable that I have never lost a plant from mold or fungus infection with this plastic technique.

Problem With Container Plants

The greatest problem with container-grown material in a severe northern climate is severe heaving from hard freeze expansion. In my experiments plants never showed any sign of root injury provided the soil in the container was well moistened before the freeze. Yet, the container must have good drainage to prevent waterlogging, which is certain destruction to most plants.

The first season I used this container method. I sunk the containers to the rim in the soil and lightly covered them with leaf mold. Toward spring it was noted that the soil had been expanded by frost so much that the medium had lifted from two to three inches above the container rim. Naturally, many containers were badly bulged, and pottery containers were broken. However, the plants were left alone, and, when the ground thawed, they were simply shoved down into the containers for further observation of effects. They did not show the slightest injury from the ordeal and grew as well as any plants.

The next season hay and straw mulch was tried, with the hope that it would climinate the heaving. It did, for the most part, but the mulch was worse than no protection at all, as mice immediately moved in. Anyone familiar with plants can tell you what these little monsters can do in less time than it takes to tell.

After several trials and errors (some of them heartbreaking) I have settled on sawdust mulch, and



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either plunging or banking containers seems satisfactory. The sawdust must be coarse, sawmill material, as fine dust has a tendency to pack and smother. The dust is best applied just before severe freezing sets in. Because sawdust freezes to an almost stonelike crust, mice will not work in it; still, because of its excellent insulating character, it takes extreme and extended cold to penetrate it more than 2 or 3 inches. Thus, the roots are able to draw moisture even in the coldest weather. Once this crust is frozen, it takes an extended period of above freezing temperatures to thaw it out. Thus the container-heaving problem from alternate freezing and thawing is eliminated. Probably ground corncobs, which James S. Wells writes about, would have a similar effect. However, the sawdust would probably be more generally available here in the northeast and also less expensive.

Will Plants Be Normal

After these operations are successfully completed, we are faced with an even more important questionwill the plants become normal, healthy growing subjects? To judge from the close case subjects that I have produced and from those purchased from other growers, the answer is definitely negative unless we can put the scion on its own roots by dropping. It would be difficult indeed to find one of these plants which is worth the space it occupies, because the aftergrowth is so sickly and stunted by the defect at the union.

Apparently I am not the only person who has had this experience with close case subjects, as the horticultural writings constantly refer to the plants which refuse to grow because they were grafted. And again, let me say with emphasis that they do not refuse to grow because they were grafted, but because of the devitalizing method by which they were grafted.

The grafted plants which the author has produced with the plastic wigwam technique can hold their own with any own-root or seedgrown plants.

This aftergrowth in grafts is important to the nurseryman as well as the planter because of the longterm character of the nursery busi-The reputation of being a reliable nurseryman requires long planning and is hard to acquire. While a nurseryman may be able to unload grafted material of a questionable character, it is repeat orders and satisfied customers that bring him to a mellow age in the industry.



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THE FRIENDLY EVERGREENS

To those persons interested in coniferous trees it will be good news that "The Friendly Evergreens," by L. L. Kumlien, has been again made available to the public by Rinehart & Co., at \$10 per copy. A decade after the publication of "Hill's Book of Evergreens," this larger and more comprehensive book by the same author was originally published in 1946 by the D. Hill Nursery Co., and this volume, like its predecessor, came to be out of print after the original edition was sold. It seems a wise choice that "The Friendly Evergreens" is now being issued by one of the foremost publishing houses of the country, so that more extensive distribution of this valuable work will be made to the increasing number of home gardeners in this coun-

To any persons unfamiliar with "The Friendly Evergreens" it may be described as a handsome volume of 237 pages, 81/2x11 inches, handsome in its red and brown cloth binding and in the large number of illustrations, many of them in full color. In concise chapters are covered the various topics concerning which readers are likely to desire information. Emphasis is upon those coniferous evergreens which are useful in home grounds, and the varieties are described in the dozen or more genera which are most widely employed for such decoration. The call for such a book has been so strong that the reprinting of this valuable volume is welcome.

HISTORY OF THE ROSE

To the number of books about the rose has been added what the publisher states to be the most complete history of that flower ever to appear in a book, "History of the Rose," by Roy E. Shepherd, just published by the Macmillan Co. at \$4.75. Its 264 pages contain data on the development of new roses through the centuries. After an introductory chapter on general history, the author treats in separate chapters 11 major botanical groups of roses. These include climbing roses, Chinese roses and some his-

toric hybrids, four Asiatics and a New World trio, the French rose and its relatives, two Old World roses, North American roses, Rugosa roses and their allies, yellow roses, hybrid perpetuals, hybrid teas and polyanthas. Besides the general character of each group, he describes many species and hybrids within each group. The derivation of the varieties popular in gardens today is shown.

Besides the great quantity of information included in the interesting and informative text, the book contains 12 pages of illustrations showing representatives of roses of most historical significance, a 7-page bibliography, a 4-page general index and a 17-page index of rose names.

Roy E. Shepherd is well qualified to write such a history, as he has been chairman of the old rose preservation committee of the American Rose Society for many years. In his garden at Medina, O., he has grown not only practically every current species of rose, but also many old as well as new hybrids. For 25 years he has been collecting and growing roses, while for the past 16 years he has devoted all his time to growing, hybridizing and writing about the rose.

EVERYBODY A BURBANK

The books on horticultural subects which have come from the publishers in increasing numbers in recent seasons have treated most other activities, so that it may perhaps be only natural that a volume is now offered the everyday gardener on how to find and develop new plant varieties. This is the 102-page book, "Plant Breeding for Everyone," by John Y. Beaty, described on the title page as a "former associate of Luther Burbank," just published by Charles T. Branford Co. at \$2.75. The book is obviously for the amateur gardener, telling him how to recognize and evaluate a new variety and its characteristics, desirable and undesirable. How to test, name and patent a new variety and how to select and introduce are phases covered in various chapters, while the different



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problems of hybridization are discussed in a popular manner. The commercial breeder will desire a more scientific book for aid in the pursuit of new varieties, but this little book will be informative to the uninitiated.

GARDENING IDEAS

Added to the Arco handi-books for better living is "Popular Gardening Ideas," a selection of 55 informative articles reprinted from Popular Gardening magazine, under the editorial selection of Thomas H. Everett, horticulturist of the Bronx Botanical Gardens. Just published by the Arco Publishing Co., this book of 144 pages, $6\frac{1}{2}x9\frac{1}{2}$ inches, is profusely illustrated, being printed by rotogravure.

Designed for the information of the home gardener, this book, priced at \$2, covers a wide diversity of topics, from the various sorts of plants which go into the garden to their propagation, culture and planting location. Tools and equipment and tips on their use are also discussed.

CONSTANCE SPRY ANTHOLOGY

One is likely to think of an anthology as associated with poetry, and this is not far amiss in regard to "A Constance Spry Anthology," a handsome book of 112 pages, decorated with eight plates in color and 32 in monochrome. Just published by Studio Publications, Inc., in association with Thomas Y. Crowell Co., at \$4.75, this book is described on the jacket as "a collection of the flowers of her own writing and thought."

From her works on flower decoration and cultivation she has assembled extracts under several headings, which may be dipped into here or there for enjoyment of her ideas or her expression of them. For a gift book or for bedside reading, this is to be recommended.

PENN THE HORTICULTURIST

The interest in gardening evidenced in the writings of William Penn, the founder of Pennsylvania, is told in a brief book of a total of 38 pages, "William Penn, Horticulturist," by Rachel McMasters Miller Hunt, just published by the University of Pittsburgh Press in a limited edition, copies of which are priced at the remarkable figure of \$10 each.

William Penn apparently was in-

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terested in horticulture as one phase of the development of his colony and also as applied to the grounds of his elaborate estate. Most of the few pages of this book, however, are of a general biographic character. Gravure illustrations are included of Penn's portrait, his home, his bookplate and a reproduction of his letter of 1683 containing a general description of the province.

POCKET GARDEN GUIDE

Evidence of the widening appeal of gardening is the publication of a book on the subject in the pocketsize, paper-bound reprints that one sees today in almost every type of store.

Montague Free's "Gardening," popular as a hard-bound book since its first edition in 1937, has been revised by the author to add new information and has been issued in a paper-bound volume of 440 pages, 4x7 inches, by Permabooks, at 50 cents.

Here is "a complete guide to garden making," in the phrase of the book's subtitle, available to the amateur for a few dimes. It is a mine of information, worthy a place on the professional's shelf, too.

GLENN DALE AZALEAS

Nearly a quarter century ago, a project was started at the United States plant introduction garden at Glenn Dale, Md., to breed azaleas with the purpose of obtaining large-flowered varieties which would be hardy in that climate, where the winter temperatures reached zero or lower in half of the 19 years that succeeded. The project was initiated and much of the actual work of making crosses was done by B. Y. Morrison, formerly principal horticulturist in the division of plant exploration and introduction of the United States Department of Agriculture.

In agriculture monograph 20, an 88-page paper-bound pamphlet published by the department, the project is briefly described by Mr. Morrison, the breeding materials are discussed and a paragraph of description, indicating the cross and the characteristics, is given on each of many named varieties which have come to be known as the Glenn Dale azaleas. An additional eight pages of pictures show blooms of more important varieties.

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INSECT PEST CONTROL

[Continued from page 13]

The strawberry root weevil is closely related to the black vine weevil and has similar habits but is much smaller, measuring one-fifth to one-fourth-inch in length. It is commonly found in Ohio and feeds on a wide variety of plants. Injury has been observed on hemlock, spruce, arborvitae and taxus, but it is usually much less severe than that caused by the black vine weevil. On arborvitae the feeding of the adult beetles is sometimes prominent because twigs are girdled and killed.

The strawberry root weevil, in Ohio, attracts attention as a household pest more often than as a pest of ornamental plants. In early fall great numbers sometimes wander into houses, apparently in search of hibernating quarters. They cause no particular damage inside a dwelling but may become sufficiently abund-

ant to be a nuisance.

The insecticides suggested for the control of the black vine weevil should control this insect also but should be applied two to three weeks earlier. In order to prevent the insects from entering a dwelling, one of the same insecticides may be applied on the foundation, the soil and the plants immediately around it. The insecticide then serves as a barier because the insects cannot fly but must crawl through the spray deposit in order to enter the building.

European Pine-Shoot Moth

William E. Miller, a graduate student has worked at the Ohio agricultural experiment station during each of the past four seasons investigating the European pine-shoot moth and the other pine-tip moths. His dissertation, now being prepared to meet the requirements for the doctor of philosophy degree, will be published in the near future as an Ohio experiment station bulletin.

On relatively small trees, the pineshoot moth can be held in check by removing and destroying the infested terminals. This should be done during May, when the larvae are nearly full grown and the injury can be detected most easily.

On trees that are accessible, the insect can be controlled effectively by spray applications. Best results have been obtained with DDT used at the rate of one pound of 50 per cent material in 25 gallons of water. In order to control the overwintering brood, the spray should be applied about April 15 or when the buds begin to swell. If this early application is not made, the tiny lar-

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vae of the new brood can be killed by spraying during the latter part of June or the early part of July. One thorough application should result in almost complete control.

Scale Insects Remain Distressing

Many scale insects have continued to be troublesome in recent years. Some of these are difficult to control unless a specific spray is applied at the proper time.

On deciduous trees that will tolerate a strong dormant spray, a dormant oil may be the most effective material available. This is true for such scale insects as the European elm scale, the pit-making oak scale, the bur oak kermes, the tulip tree lecanium and the San Jose, scurfy, and Putnam scales. For the most of them the commercial dormant oils may be used at the rate of four or five gallons in 100 gallons of water. The superior miscible oils may be used at two to three gallons or the more highly refined summer oils at four gallons in 100 gallons of water for trees that are susceptible to oil injury. However, sugar and Japanese maples, beech, hickory and walnut should not be sprayed with oils of any type, and most evergreens are likely to be injured by dormant oils. A dormant lime-sulphur spray can be used safely on most evergreens and is the most effective material available for control of the pineneedle scale.

Another group of scale insects, for which dormant oils cannot be used safely, can be controlled with Parathion or Malathion. For this purpose Parathion should be used at the rate of two and one-half pounds of 15 per cent powder and Malathion at four pounds of 25 per cent powder in 100 gallons of water. In some cases the spray must be timed carefully. The lecanium scale on taxus and arborvitae, for example, is usually protected by an almost impervious scale covering and is difficult to control when well grown but can be killed readily in the young stages. Since the eggs hatch early in July, a spray containing Parathion or Malathion applied soon after July 15 will give almost complete control.

The magnolia scale when full grown is large and covered with a waxy coating which does not wet readily. However, the new brood which appears early in August can be killed with Malathion or Par-

The juniper scale and the euonymus scale are perhaps most susceptible to the action of Parathion and Malathion during June but can usu-

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ally be controlled at any time during the summer months. In case of heavy infestations, perhaps two applications should be made within an interval of 10 days

For the control of the ovster-shell scale on lilac and poplar, a DDT spray is suggested. However, the spray must be applied during the period in which newly hatched crawlers appear. Because this period varies somewhat from year to year, it is best to make one application on about May 25 and another 10 days later. A 25 per cent DDT emulsion concentrate may be used at the rate of two quarts in 100 gallons of water.

Recent Progress in Insect Control

A recent advancement in the control of insects on ornamental plants has been the demonstration that leaf miners can sometimes be controlled after the larvae are established in their burrows. The arborvitae leaf miner, for example, was controlled completely with one application of Malathion made early in October. Since the eggs are laid during June, such a spray should be effective at any time after the middle of July.

The birch leaf miner can also be controlled after the larvae appear. The spray commonly recommended in the eastern states is Lindane at the rate of one pound of 25 per cent powder in 100 gallons of water. It is probable, however, that Malathion would also control this insect.

Maple bladder galls have appeared on the leaves of many silver maple trees in Ohio during recent years. The galls are globular in shape and vary somewhat in size, the larger ones being about 1/10-inch in height. When first formed, the galls are green in color but soon become bright red and later are almost black.

Maple bladder galls are caused by eriophyid mites that are minute measuring only about 1/125-inch in length. The mites live during winter on the twigs of maple trees and crawl to the leaves when new growth appears. They feed on the under surface of the leaves by means of tiny sucking beaks. The galls develop on the upper surface as a result of the feeding punctures. As a gall enlarges, a cavity forms on the interior with an opening on the lower surface of the leaf. This opening serves as an entrance, and after a gall is formed the mites feed primarily within the gall cavity.

Maple bladder galls seldom cause severe damage, and it is questionable whether control measures are warranted. However, a spray of liquid lime-sulphur at the rate of one part



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to nine parts of water applied before growth starts in the spring will kill the overwintering mites and prevent the appearance of the galls. Recent work done at Purdue University shows that Parathion or Malathion will control them if applied on a warm day before new growth develops. No control measure is known that can be employed after the galls appear.

Hickory Gall Aphis

Galls caused by the hickory gall aphis frequently appear on hickory twigs during May in northern Ohio. The galls are bullet-shaped, green in color and leathery in texture. They vary in size from one-fourth to onehalf-inch or more in diameter and are nearly filled with aphis.

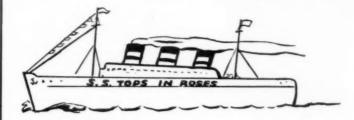
The insects live during winter in the egg stage, located on the twigs in crevices of the bark. The eggs are oblong and shiny black but too small to be recognized without magnification. The newly hatched insects congregate on the swelling buds in the spring and insert their sucking beaks into the new growth as soon as the buds break. The rapid abnormal growth of the new twigs soon completely encloses the aphis. Later in the summer the galls break open, and the adult winged insects escape.

In a cooperative experiment carried on by the Charles F. Irish Co., landscape contractors, and Dr. R. B. Neiswander, a large hickory tree was sprayed with Malathion the past year for the control of the hickory gall aphis. The tree had been severely injured by galls during each of the three previous years, and many eggs were present in the spring of 1953. Malathion was used at the rate of one pound of 25 per cent powder in 25 gallons of water and was applied on May 7. At that time the buds were swollen, but no new growth was exposed. Newly hatched aphis were present in great number.

After the foliage was well developed only an occasional gall could be found on the tree.

Gall-forming insects can be killed with a dormant spray because they live during winter in an immature condition at the base of the spruce buds. The control measure commonly recommended is a dormant spray of lime-sulphur. In a test carried on at Wooster, O., the past year, Malathion at the rate of one quart of 54 per cent emulsion concentrate in 100 gallons, applied on May 6, proved inadequate. However, it was apparently applied too late in the season because many eggs were already present.

DON'T MISS THE BOAT!





WE WILL SET SAIL WITH OUR NEW LISTINGS IN EARLY SPRING

WELCOME ABOARD —

We will be glad to have your name on our 1954-55 passenger list.

Cruise includes the always exciting A. A. R. S. winners, introductions newer than tomorow and, of course, the "forever new" old favorities.

BUSHES — CLIMBERS — TREES

EEKS WHOLESALE ROSE GROWER

O. L. Weeks

926 W. Ely

ONTARIO, CALIF.

CALIFORNIA

Association of Nurserymen

ELMER J. MERZ, Executive Secretary

PENINSULA CHAPTER MEETS

The Peninsula chapter of the California Association of Nurserymen held a ladies' night meeting March 4, at the Hawaiian Gardens, San Jose, Calif. Eighty members and guests were present to enjoy the program arranged by President Ernest Esch, Esch's Nursery, San Jose, and Vice-president William E. Schmidt, Schmidt Nursery, Palo Alto.

The highlight of the evening was a speech given by George Kelly, Christensen Nursery Co., Belmont, on foliage plant arrangements. Mr. Kelly showed planters and tropical plants suitable for indoor gardens. Afterward, the party was entertained by the Hawaiian Gardens' floor

Guests included David Rayner, agricultural commissioner for Santa Clara county; Richard DeVitto, Germain's, San Jose, and Arthur Hilbert, American Seed & Nursery Co., San Francisco.

Ladies connected with many of the members' nurseries were present. These included Mrs. Marcon and Mrs. Miller, Leonard Coates Nurseries, San Jose; Mary Esch, Esch's Nursery, San Jose; Vivian Takeda, Mayfair Nursery, San Jose; Betty Schenone, Pacific Nurseries, Colma; Jean and Louise Carman, Carman's Nursery, Campbell; Mrs. Vernon James, James' Rare Plant Nursery, Campbell; Irma Christensen, Christensen Nursery Co., Belmont, and Beatrice Davies and Amelia Solomon, the Flower Garden, Palo Alto.

The tables were tastefully decorated with camellia flowers and foliage by George Smith, of Leonard Coates Nurseries, San Jose, and camellia corsages were provided for the ladies by Toichi Domoto's nursery, Hayward.

AN ALL-STAR cast of noted garden authorities was featured at the recent grand opening of Glenoaks Garden Supply, Glendale, Calif.

SIR FRANCIS DRAKE NURS-ERY is the name of a new firm at San Anselmo, Calif., operated by Eddie Silverman and Andy Frick.

ACTIONS SPEAK LOUDER Insist on the GENUINE REDHEAD CAN SHEAR It cuts ALL cans

- CLEANLY
 - SWIFTLY SAFELYII
 - It's ALL-steel, zinc-plated.
 - Its blade is heat-treated Carbon Spring. • Its face plate
 - is reversible, hardened. Has adjustable

Nursery Prices:
1 or 2—Each \$6.75
8 for \$17.50—6 for \$30.36
12 for \$54.00
F.O.B. Berkeley, Calif.
Pag. wt. ea. unit 4½ lb.
The Reihead has been imitated!
Look for this
"Handy-Man" label \$#"
It guarantees
the REDHEAD only!
(We don't repair the

(We don't repair the imitations.)



Be sure of getting the Genuise

— Buy Ayer-Line from our
authorized jobers. For names,
see American Nurseryman,
September 15, 1953, or write:

Ayer-Line INDUSTRIES, INC.

709 Jones St.

BERKELEY 10, CALIF.

CALIFORNIA REDWOOD PLANT TUBS

"PATIO PLANTER"

OCTAGONAL TUBS-

12 ins. to 24 ins.

SQUARE TUBS — 8 ins. to 16 ins. PLANTER BASKETS-

Deep combed, dual use



Large Tub and Plant Roller

FOR USE UNDER TUBS For INTERIOR PLANTINGS:

Solid Copper Pans.....PlantWalkers, with bowl..... Plant Rollers, a base for larger tubs (as shown above).

A fine source of additional profit. Write for wholesale list.

PATIO WOOD PRODUCTS

835 Commercial St. Phone ATlantic_7-9374_San Gabriel, Calif.





4228 N.E. 77th Avenue . Portland 13, Oregon

Write for List Today H & S Personality Roses Bred for American Gardens HOWARD & SMITH, INC. MONTEBELLO, CALIF.

F. A. DOERFLER & SONS NURSERY 250 N. Lancaster Dr. SALEM, ORE.

Refer to our January 15 ad. Phone 2-2549

PROMOTE LANDSCAPING

[Continued from page 11]

because it is written by Mr. Corliss and his capable secretary, Veda Lewis, in collaboration with the landscaping superintendent, H. R. Corliss. Through their long contact with the public at the two nurseries they have developed a keen sense of what attracts the homeowner. Each ad that they turn out is a masterpiece of clarity and has strong appeal for the person who has grounds to im-

4. The trademark of a Corliss ad is an eye-catching picture. No ads are run without one. Mr. Corliss recognizes the strong attraction which pictures have for the reading public. He also realizes the value of showing pictorially the quality of the work done by his firm. Corliss never uses advertising mats. All photos used are taken by the company's own photographer, and all are of homes Corliss has landscaped. Of course, the customer's permission to use the picture is sought and rarely is this permission refused. Most of the homeowners are proud to have their homes photographed for publication in the local newspaper.

5. Corliss Nurseries receive a great deal of free newspaper publicity by preparing interesting stories and photographs and submitting them to the six prominent newspapers in their area. Whenever there is anything newsworthy going on at the nurseries, a story and illustration are immediately prepared for newspaper release. They do not rely on the fact that they are advertisers to induce the papers to accept the material. They make certain that the material is of interest to the general

Ads Receive National Attention

The Corliss series of newspaper ads selling their landscaping services came to the attention of the national bureau of advertising of the American Newspaper Publishers Association, and the association featured Corliss in one of its business building bulletins, directed to retail advertising men all over the country.

Commenting on his series of pictorial ads, Cliff Corliss said: "Any nursery selling landscaping services is basically in the business of selling beauty. Photographs sell beauty better than words alone. Any nursery selling landscaping services must also sell the quality of its work. What better way is there to do this than by showing prospects an actual photo of a job you're proud of?

"Ever since we began the news-

paper advertising campaign," he continued, "our landscaping department has enjoyed consistent and considerable sales increases. The campaign has also built traffic and sales in our two nursery departments. We use daily newspapers exclusively because we feel that they reach more customers over a wider area than any other consumer advertising medium."

Use Display Windows

Though newspapers are the principal media used by Corliss Bros. for advertising, they also make excellent use of the large display windows at the Ipswich nursery and garden center. They take photographs of outstanding landscape jobs they have done, blow them up to 36x40-inch size and display them particularly during the months of January and February. Spotlights are on in the windows until 11 o'clock at night, and many people traveling route 121 through Ipswich stop their cars to obtain a close view of the impressive Corliss photographic display. Thus the window displays make up for the lack of newspaper advertising during the winter months and make the advertising program a 12-month affair.

Another effective means of advertising the Corliss landscaping services are the word-of-mouth comments of satisfied customers. The fact that there are satisfied customers is no accident, either. A long-standing Corliss policy is responsible for the fact that they are engaged by clients not only once, but twice, three times and more if needed. This policv is to refuse to do any job that they are not allowed to do rightthat is, with the proper materials. They realize that the initial cost is higher, but they also realize that it gives more satisfaction and is much less expensive in the long run. Also they refuse to handle any job involving plant material not suited to the local weather conditions and atmosphere.

"Our insistence on doing a job right or not doing it at all has lost us a few jobs," pointed out Cliff Corliss, "but it has kept our reputation high. We have corrected a great many jobs that were done too cheaply in the first place by other landscaping firms and so we know the dangers of that type of operation."

Recognizing that the cost of properly done landscaping work runs somewhat high these days, Corliss Bros. have set up a progressive plan of planting. Under this plan a homeowner can have as much of a landscaping job done as he can afford



TAMARIX JUNIPER

Juniperus sabina tamariscifolia

POT-GROWN LINER STOCK

21/4-in. pots, **\$20.00** per 100

Order Now for Immediate Delivery



Our monthly catalog now shows laid-down prices to your door. Over 500 varieties now available. Write today for your free copy.

Monrovia Nursery Co.

P.O. Box 196, MONROVIA, CALIFORNIA

TO THE LATE-COMERS

We Are Holding No. 1 Bushes of Carrousel in Cold Storage in Order to Fill Your Orders.

TO OUR REGULAR CUSTOMERS

Many Thanks for Your Generous Patronage.



ELMER ROSES

WHOLESALE ONLY 6708 N. San Gabriel Blvd... SEND FOR CATALOG
SAN GABRIEL, CALIF.



AURORA, ORE.

EVERGREEN LINING-OUT STOCK

Conifers • Azaleas • Heather

Write for new catalog, now ready.

See our classified ad under Evergreens in this issue MITSCH NURSERY

JRSERY
Wholesale Propagators and Growers of Evergreen Liners



each year. There is no duplication of planting or expense. No changes have to be made. The entire landscaping plan is laid out in advance and each year a portion of it is done until the entire job is completed.

To protect themselves against slow payment or no payment, evils inflicted on many landscaping firms, Corliss Bros. check credit references on every prospect, regardless of the person's reputed financial position. For references they do not go to the client's bank, but rather to companies that he or she has done business with in recent months. When it is requested by a prospect, the Gloucester concern arranges credit terms. The purpose behind the careful credit check is to prevent misunderstandings with customers as well as to eliminate deadbeats from the list of accounts

To make certain that their landscaping crews put in high grade work on all their jobs, Corliss Bros. never let the foremen or workers know whether they are doing contract or day work. The idea behind this is to keep the men working on an even keel and doing the same quality work on a contract job that they would do on a day job.

Operations Confined

It is intetresting to note in conclusion that the success of the Corliss landscaping business has not led them into the sometimes fatal error of extending their operation beyond the profitable radius, geographically speaking. They confine their services to homeowners in the north shore area, whom they know best and can serve profitably. What is more, extending the area would mean charging higher prices, so that they would be faced with greater price resistance unless they agreed to cheapen their work, which they absolutely would not do.

It would certainly seem evident at this point that there are several carefully planned factors behind the success of the Corliss Bros. landscaping operation, but when you ask Cliff Corliss to sum it all up in a few words he says simply: "Long hours and hard work did it. Playboys don't make good in the nursery or landscape business."

THE Hawaii-San Francisco Investment Co. recently purchased ten acres of land from the California Nursery, Niles, Calif., to develop a garden-type subdivision with homes individually designed and land-scaped. The buyers have options to purchase 35 additional acres.

OREGON'S BEST SOURCE OF GOOD ROSES

A complete list of HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS. Also, one of the most complete lists of patent varieties, including the A. A. R. S. award winners.

SEND FOR OUR LISTS.

EASTERN REPRESENTATIVE:

FRANK C. DONOVAN 130 E. 233rd St. EUCLID 23, O.

PETERSON & DERING

ROSE GROWERS SCAPPOOSE, ORE.

Jan de Graaff's

P. O. Box 512
GRESHAM, OREGON

Lilies

Daffodils

Iris

ROSES OLD and NEW

Fine-quality, two-year plants budded on Multiflora in over 250 varieties.

Send for list.

MT. HOOD NURSERY Rt. 2, Box 96 GRESHAM, OREGON

DOTY & DOERNER, Inc.

PORTLAND 19, OREGON

WHOLESALE

GENERAL NURSERY STOCK

Finest Quality

CAMELLIAS — ROSES
RETICULATAS — HOLLY
(Originators of Chrysler Imperial)

DESCANSO DISTRIBUTORS, INC.
Wholesale Growers
Pipeline & Walnut Sts., CHINO, CALIF.

MILTON NURSERY CO.

NURSERIES

C. Bert Miller, President

MILTON - 75 Years - OREGON

Flowering, Ornamental and Shade Trees

Fruit Tree Seedlings and Angers Quince Rooted Cuttings

Combination carlots for eastern distributing points during shipping season.

Write for our Trade List.

ROSES-TREE ROSES

A fine selected list including patented varieties. Highest quality — all field-

wn.

Write for list and prices.

PACIFIC NORTHWEST ROSE NURSERY P. O. Box 261 GRESHAM, ORR.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: 84.00 per inch, each insertion.

Liners: 35e line; minimum order \$3.50.

FOR SALE

Small plant and bulb, nationally advertised, mail-order business. Estab-lished 20 years and grossing upward of \$100,000 yearly. Planting gladiolus, dahlias and miscellaneous stock, Warehouse 10,000 sq. ft. With all equipment. Mailing list of 35,000 very active names, 150-acre farm with irrigation equipment optional. Operating two businesses makes selling one necessary. Location western New York state. Write to Box 61, care of American Nurseryman

FOR SALE

Space in these columns is for sale at Space in these columns is for sale at low cost to nurserymen who wish to dispose of property, seek positions or secure new employees. In the American Nurseryman, your advertising is directed to those whom you wish to interest at a minute fraction of the cost of contacting them in any other way. Every issue of the magazine is read by more than \$,000 of the nation's nurserymen, giving the advertiser the maximum opportunity for successful results. Next time you have a problem which may be solved in these columns, send your want ad copy to

AMERICAN NURSERYMAN 343 S. Dearborn St. Chicago 4, Ill.

FOR SALE

LANDSCAPE NURSERY

Located near industrial city in southern Michigan. Well estab-lished. 12 acres of young, salable landscape material, modern home landscape material, modern home and modern equipment. Excellent location for garden center. Rea-sonable terms. Write Box 34, care of American Nurseryman.

FOR SALE

A 47-year-old, 40-acre nursery with complete line of nursery stock. Includes nice selection of dwarf evergreens and shrubs. Natural supply of water for irrigation. Two houses and cold storage basement; also several other buildings. Located in southern Minnesota; twelve towns nearby, Priced to sell. Owner deceased. Address replies to Box 55, care of American Nurseryman.

FOR SALE

Thirting nursery business, 38 miles north of New York city in Orange county. 12 acres of salable-size stock, all varieties. Stone residence with nine rooms and bath, heated; also office and small attached greenhouse. Fire-car garage with five-room apartment above, \$39,000, with terms. For further details, write URLAND SANN Chester, N. Y.

FOR SALE

TREE MOVERS
We have several used tree movers in \$ and 7-ft. ball capacity. These movers are used but in perfect condition.
WILLIAMS & HARVEY NURSERIES
CO.
Box 8822, Kansas City. Mo.
Phone: Gilmore \$000

HELP WANTED

PEAT MOSS REPRESENTA-TIVE

To represent an old and reputable importer of German peat moss. Territories open in Florida, Texas and southwest. All inquiries strictly confidential. Address all replies to Box 59, care of American Nurseryman.

HELP WANTED

EXPERIENCED PROPAGATOR

Man capable of taking complete charge of greenhouses totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

SITUATION WANTED

Nursery salesman desires position with good garden shop or wholesale nursery. Age 49, with 25 years' ex-perience in advertising, selling and buy-ing nursery material. Address replies to Box 58, care of American Nursery-

WANTED TO BUY

Small landscape-nursery business with residence on premises. Full details first letter. Address replies to Box 60, care of American Nurseryman.

FOR SALE

Outstanding North Shore shop with green-houses. One of the best suburban florists in fast-growing community. Well-stocked store, greenhouses and nursery. Profitable business for ambitious man. Selling because of lilness, ART FLORIST AND GREENHOUSES

FOR SALE

Greenhouse and 120 acres with large modern home and barn. Five miles from Rhinelander, Wis. Excellent oppor-tunity and location for nursery, land-scape business, florist, and farming. Address replies to Mrs. Geo. Dahlstrand, Box 205, Rhinelander, Wis.

FOR SALE

Age and ill health force sale of 28-year-old shrub, tree and perennial nursery in Puget Sound of western Washington, Good general and spe-cialty stock, Loyal, friendly local and mail-order customers. Fine opportunity for expansion with plenty of land, Terms.

KAYLOR NURSERIES Arlington, Wash.

FOR SALE—Businesses may be offered for sale by use of a want ad liner such as this. Cost: 35c per line (minimum order \$3.50). Your ad will be seen by more than 8000 American Nurseryman readers.

HELP WANTED

First-Class Opportunity

Superintendent for large nursery and greenhouse operation. Must have outstanding ability in Must have outstanding ability in propagation and production; able to handle and allocate help. Old established concern in the vicinity of New York city. Write full particulars, age, experience, previous employers, salary expected and other pertinent information. Every chance to progress. All replies confidential. Write to Box 62, care of American Nurseryman.

HELP WANTED

EXPERIENCED NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to experienced nurserymen; also, to horticultural and agricultural students and graduates. Must be able to work! Security, pleasant working conditions and unlimited future for the right men. Beginning salary \$300.00 per month.

MONROVIA NURSERY CO. P.O. BOX 196 Monrovia, Calif.

HELP WANTED

Industrious young man to join our office staff as junior executive. Some horticultural experience preferred. An opportunity to see and learn all phases the mail-order nursery business. Every chance for advancement if applicant has initiative, ingenuity and the will to succeed. Give full qualifications and references in first letter. Address The Wayside Gardens Co., Mentor, Ohio.

HELP WANTED

HELP WANTED

One of the oldest and largest nurseries and landscape contracting concerns in Philadelphia now
offering an exceptional opportunity and highly
profitable permanent position for experienced man.
Selling field and opportunity unlimited.

AMERICAN FORFIT SHAFFY CE CO.
Lancarier Philadelphia 31, Pa.

HELP WANTED

GREENHOUSE EXPERT—For orchids and plants. House provided. FORESTER—Must be single. Bed-room apartment provided. Both positions permanent. Private estate. Write: LORENZ, Mather Lane, Cleveland 8, O.

HELP WANTED

Nurseryman of high repute desires experienced man to take charge of new garden center close to Cleveland. Must be sober, reliable and energetic. Refer-ences required. A good opportunity for a good man. Write Box 52, care of American Nurseryman.

CLASSIFIED A

Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, April 16.

AZALEAS

AZALEA LINERS
INDICA VARIETIES
ELEGANS INDICA ALBA
FIELDERS WHITE JUDGE SOLOMON
FISHER'S PINK
GEORGE L. TABER

AZALEA LINERS
Kurume and Pericat
om Hortensia
Mauve Beauty
heer Peach Blow
Pink Pearl
Salmon Beauty
Norme Apple Blossom Bridesmaid Christmas Cheer Coral Belis Fortune Gardenia Supreme

AZALEAS

Transplanted rooted cuttings, Hinodegiri, Indica Alba and named Kaempferi hybrids, 14c each, per 1000 quantity; 12½c each, in quantity of 5000 or more.

FIELD-GROWN KAEMPFERI HYBRIDS

12 to 15 ins., B&B, \$2.00 each per 10; \$1.75 each per 100; 15 to 18 ins., B&B, \$2.75 each per 100; 15 to 18 ins., B&B, \$2.75 each per 10; \$2.25 each per 100.

WHITE DOGWOOD (Specimen material) 4 to 5 ft., B&B, \$4.75 each per 10; \$4.25 each per 10; \$5.00 each per 10; \$6.00 each per 10; \$5.00 each per 10; \$6.00 each per 10; \$7.00 each per 100; The above prices F.O.B. Norristown, Pa.

DEKALB NURSERIES, INC.

BOX 67. Norristown, Pa.

Phone: Norristown, Pa.

| AZALEAS | |
|-------------------------------|----------------|
| 10 to 100 Each | 100 up Each |
| Corsage (Gable Type) | |
| 8 to 10 ins\$1.10 | \$1,00 |
| 10 to 12 ins 1.35 | 1.25 |
| 12 to 15 ins 1.75 | 1.60 |
| Amoena, Coral Bells, Hinomayo | |
| 6 to 8 ins | .80 |
| Macrantha, Sweetbrier | |
| 8 to 10 ins 1.10 | 1.00 |
| Ledifolia alba (White Indica) | |
| 18 to 24 ins 4.00 | *** |
| 24 to 30 ins 5.50 | |
| WAYNESBORO NURSERIES | |
| WAYNESBORO, VIRGINIA | |

AZALEAS

150,000 field-grown, clean azaleas, all varieties, 12 to 36 ins. Buy hardy northerngrown from the largest azalea nursery in the north.

Also, May 1 delivery, lining-out azaleas. 15c each, 60 in a flat, Special prices on large quantities.

MIDDLE LOTANIA

MIDDLE ISLAND NURSERIES Baier Lustgarten, Prop. Middle Island, L. I., N. Y.

Hinodegiri, \$12.50 per 100, \$100.00 per 1000;
Hino-Crimson, \$15.00 per 100, \$130.00 per 1000;
Hino-Crimson, \$15.00 per 100, \$130.00 per 1000;
Gable Boudoir, Purple Splendor Glenn
Dale Fashion, Greeting Mary Margaret,
Vuykiana Beethoven, Jos. Hayden, Helena,
Johann Strauss, Gable Glenn Dale Vuykiana,
\$17.50 per 100,
FLORACREST GARDENS
U. S. Highway 202 and Sugartown Rd.
R.D. 2, Malvern, Pa.

2-yr., TT., bed run, \$160.00 per 1000. \$20.00 per 100, under 500. Samples on request.

LYON GARDENS & NURSERY t. 1

Centralia, Wash.

Quick - Convenient - Cheap! Selling through the Classified Ads of the American Nurseryman.

BERRY PLANTS

CULTIVATED BLUEBERRY PLANTS Certified by New Jersey Dept, of Agr.

Certified by New Jersey Dept. of Agr.

Burlington, Cabot, Jersey, Pemberton,
Rancocas, Rubel and Stanley,
rooted cuttings, extra-heavy \$0.07

Burlington, Cabot, Jersey, Pemberton,
Rancocas and Rubel,

§ to 12 ins. 15
12 to 16 ins. 20
Dixl. rooted cuttings, extra-heavy .09
18 to 24 ins. 20
Wewmouth, rooted cuttings, extra-heavy .10
§ to 12 ins. 20
12 to 16 ins. 30
Stanley, 18 to 24 ins. 40
Norway Maple (Acer Piatanoides), 1-0
seedlings, 3 ins. \$5.00 per 100.
Norway Spruce (Picca Abies), 2-0 seedlings, 3 to 4 ins. \$18.75 per 1000.
CLIFFORD NORCROSS & SON
133 Mount Holly Ave. Mount Holly, N. J.

RASPBERRY PLANTS

RASPBERRY PLANTS

Revolutionary new Durham off-season red raspherry plants. Bears mid-August to mid-October. Cut all canes back to ground each fall. Crop comes on new growth each year. Eliminates winter killing. Also. Indian Summer Everbearing Gatineau and Madawaska raspberry plants.

Durham Prices: Per 1000

Up to 3/16-in. cal. \$50.00

1/4-in. cal. and over \$5.00

1/4-in. cal. and over \$5.00

F.O.B. express or truck transportation.

STRAWBERRY PLANTS, 25 varieties of Standard and Everbearing. Write for free catalog.

catalog.
WALTER K. MORSS & SON
Bradford, Mass. SEPTEMBER RASPBERRIES Per 1000 Bristol, tips
Morrison, tips
Sodus, tips
WHEELOCK WILSON NURSERY
Marshalltown, Ia,

Giants of the Strawberry world. New varie-ties, Blaze, Phelps, Strafford and N.H. 269, Heavy yield, extra flavor, firm shippers, medium late to very late. University of New Hampshire originations by Dr. Latimer, Nurserymen, there will be a big demand for these excellent varieties. Plants not plentiful. Circular.

Circular.

DONALD C. CHANDLER
New Glouce

STRAWBERRY PLANTS
Double inspected, northern-grown. Dunlap,
Blakemore, Premier, Glant Robinson, \$12.00
per 1000; Giant Gem, Streamliner, Minnesota,
T1166, everbearing, \$19.00 per 1000.
These are young, healthy, freshly dug
plants, guaranteed to reach you in good
growing condition,
IOWA NURSERY
Farmington, Ia.

STRAWBERRY PLANTS

STRAWBERRY PLANTS
Northern grown, doubly inspected, irrigated, grown right, dug right, packed right and priced right.
We have Senator Dunlap, spring bearing and Gem, everbearing, which are the best producing varieties for us. Write or phone us to see what we have available.

PELLETT GARDENS
Atlantic, Ia.

RASPBERRY PLANTS Per 100 Per 1000 Durham Red Everbearing,

70.00

EVERBEARING STRAWBERRIES

True to name.
Per 1000 Per 5000
15.00 14.00
20th Century Utah... 32.50 30.00
DAVIS PLANT FARMS
Hamilton, Mont.

Turn Stock into Dollars by Listing It in the Classified Ads of the American Nurseryman.

BULBS AND TUBERS

a variety.

LOUIS DANK
1170 Broadway New York 1, N. Y.

TUBEROUS-ROOTED BEGONIAS

Selected Belgium-grown Bulbs.

DOUBLE CAMELLIA—FLOWERING
Red, orange, salmon, yellow, scarlet, pink,
copper, white, mixed.
 copper, white, mixed.
 Per 100 Per 1000

 Exhibition size
 \$15.00
 \$140.00

 2 ins.
 14.00
 120.00

 1½ to 2 ins.
 10.00
 90.00

 1½ to 1½ ins.
 6.00
 \$6.09

2 ins. 10.00 50.00
1½ to 2 ins. 10.00 50.00
1½ to 1½ ins. 6.00 50.00
1½ to 1½ ins. 6.00 50.00
DOUBLE FIMERIATA (Carnation-type)
In 6 separate colors or mixed.
Double Pendulas in 6 colors.
Double Pendulas in 6 colors.
Double Camellia, Marmorata, Rosebud
Per 100 Per 1000
Top size \$16.00 \$140.00
First size 10.00 \$9.00
Minimum order, \$10.00, Cash with order.
FOB. Battle Creek, Mich.

VERONA GARDENS
Rt. 5 Battle Creek, Mich.

HARDY MICHIGAN-GROWN LILY BULBS New, rare, scarce and unusual as well as standard varieties. Send for your free copy. New wholesale list new ready. J. HENDRIKS, GROWER, Portage, Mich.

| APRIL 15, 1954 | | 65 |
|---|--|--|
| UNUSUAL BULBS Per 100 Amaryllia, American-Dutch hybrids \$50.00 | LINING-OUT LIST Prices subject to change without notice. | (Continued from previous column.) |
| Amaryllis Halli (Magic-Lily) 15.00 Amaryllis Formosissima (Aztec-Lily) , 35.00 | All potted liners on this list are priced for shipment in paper pots or cups. Those who prefer the ordinary method of packing, omit- | NANDINA DOMESTICA 3x4 ins., Seedlings |
| Arum Santcum (Palestine Arum) 50.00 Amorphophallus Riviera (Indian Arum) 50.00 | prefer the ordinary method of packing, omit- ting this added protection, may deduct ic per | 2 ¼ -in. pot |
| Crinum Album Magnificum 50.00 | plant. | 2% inn. pot 10 2% in. pot 10 2% in. pot 12 0SMANTHUS AQUIFOLIUM 2% in. pot 12 2% in. pot 20 |
| Cooperia Drummondi | The 1000 rate applies on all orders; therefore, please order in multiples of 25 or more. | |
| | EACH BIOTA AUREA NANA (BERCKMANS) 2½-in, pot | |
| Pancratium Maritimum | BIOTA AUREA PYRAMIDALIS COMPACTA | 2½-in. pot |
| Milla Biflora 6.00 Pancratium Maritimum 35.00 Oxalla (Four-leaf Clover) 2.00 Zephyranthes, pink, white, yellow 6.00 J. HENDRIKS, GROWER, Portage, Mich. | BIOTA BONITA | |
| | 2 ¹ / ₄ -in. pot | 24-in. pot. Seedlings |
| CAMELLIAS | 2 ¼-in. pot | Red Japanese Maple 2 4-in. pot, Seedlings |
| CAMELLIA THEA (Tea Plant), 3 to 5 ins., \$4.50 per 100; \$40.00 per 1000. From seed- | Blue Lawson Cypress | BERBERIS THUMBERGI ATROPURPUREUM |
| beds, CATAWBA NURSERY Newton, N. C. | 2½-in. pot JUNIPERUS CHINENSIS PFITZERIANA | Redleaf Barberry |
| CHRYSANTHEMUMS | 2¼-in. pot | 2 %-in. pot |
| CHRISANTIEMOMS | 24-in. pot | 24-in. pot |
| HARDY | JUNIPERUS CHINENSIS FORTUNEI | 24-in. pot |
| CHRYSANTHEMUMS | Fortune Juniper 21/4-in. pot | 2 ¼ -in. pot |
| Will bloom this fall. | JUNIPERUS CHINENSIS VIRIDIFOLIA | SPECIAL NOTICE: Items marked by as- terisk (*) delivery late spring. All items |
| | Densa Glauca | not so marked ready for immediate ship- ment or later to suit customer's requirements. |
| 500 Divisions 25 Varieties—20 Each | JUNIPERUS COMMUNIS KIYONOI | Ore our elevation and affining aumplies lin- |
| | JUNIPERUS DEPRESSA PLUMOSA .20 | ling-out stock in lots of 250 or more under Lining-Out Stock in this issue. T. G. OWEN & SON, INC. |
| For \$24.00 | Andorra Juniper | COLUMBUS, MISS. |
| This collection includes individually labeled, new and standard varieties in a well-bal- | JUNIPERUS EXCELSA STRICTA 24-in. pot | EVERGREEN LINING-OUT STOCK |
| anced selection. | JUNIPERUS GLAUCA HETZI 2 1/4-in. pot | Fine Lot of Liners for Immediate or Spring Shipment. Write for Complete List. Per 10 Per 100 |
| W C TOR WILDSByrns | IIINIPERIIS HIRERNICA FASTICIATA | Arborvitae Boothi (Best Globe), 4 to 6 ins. X |
| W. S. YOE NURSERIES Madison, O. | 2 %-in. pot | Arborvitae Boothi (Best Globe), |
| | JUNIPERUS JAPONICA PROCUMBENS 24-in. pot | 6 to 8 ins., X |
| HARDY CHRYSANTHEMUM | JUNIPERUS JAPONICA VIRGINALIS | 4 to 6 ins. X 2.00 17.50 6 to 8 ins. X |
| Write for our 1954 Hardy Chrysanthemum wholesale list featuring the famous "Mili- | JUNIPERUS SARINA TAMARISCIFOLIA | Arborvitae Pyramidalis, 4 to 6 ins., X (\$165.00 per 1000) |
| tary" Mums, the Universities of Nebraska, Minnesota, Chicago and many other money- | *24-in. pot | Arborvitae Siberian, |
| making summer-flowering chrysanthemums. Many of these make excellent cut flowers that need no shading to produce flowers in | JUNIPERUS VIRGINIANA KETELEERI | 6 to 8 ins., X 2.50 22.50 |
| late July and August, Ton-quality, strong- | *2¼-in. pot | Arborvitae Siberian, 8 to 10 ins. X |
| rooted cuttings and banded plants at com- petitive prices. SEND FOR YOUR LIST | Hardy Canadian Boxwood 2 ¼-in. pot | 6 to 8 ins. X |
| CORLISS BROS., INC., NURSERIES 19 Reynard St. Gloucester, Mass. | BUXUS SUFFRUTICOSA | Buxus Sempervirens, |
| | Old-Fashioned English Boxwood Rooted Cuttings | 6 to 8 ins., X 2.25 20.00 Buxus Sempervirens, |
| TWO TOP-NOTCH PERENNIALS Chrysanthemums Copper 'n Gold (New | Rooted Cuttings | 8 to 10 ins. X |
| 1954). Perfect 10 to 12 ins., cushions loaded with golden flowers with darker centers. Mid- | CAMELLIA SASANQUA, MAIDEN'S BLUSH | Euonymus Carrierei, |
| September, Rooted cuttings, \$2.40 per 10; \$20.00 per | 2 1/4 -in. pot | 12 to 15 ins., X |
| Gaillardia, The Warrior. Large ruby-red | 2 ½-in, pot | 12 to 15 ins, X 18.00 Ilex Burfordi, 3-in. pot 3.50 30.00 Ilex Crenata, 4 to 6 ins, X. 2.00 17.50 6 to 8 ins, X 2.50 22.50 8 to 10 ins, X 3.00 27.50 Ilex Convexa Bullata, 2.00 17.50 |
| daisies, overlaid mahogany. Rooted cuttings, \$1.20 per 10; \$10.00 per | EUONYMUS PATENS SIEBOLDIANUS | 8 to 10 ins., X |
| 100. Complete list on request. | Large Leaf 2 1/4-in. pot | 6 to 8 ins., X 2.50 22.50 |
| FLEMING'S FLOWER FIELDS 3100 Leighton Ave. Lincoln, Neb. | 24-in. pot | liex Rotundifolia, |
| BETTER HARDY MUMS | Small Leaf 2¼-in. pot | 4 to 6 ins., X |
| We only offer best-selling varieties as determined by the thousands who buy from | GARDENIA FORTUNEI 21/4-in. pot | 4 to 6 ins. X. 2.00 17.50 6 to 8 ins. X. 2.00 25.50 22.50 20.50 do 10 ins. X. 3.00 26.00 Juniperus Hetsi Glauca, 6 to 8 ins. X (\$215.00 per 1000) |
| THE BEST MONEY-MAKERS | ILLICIUM ANISATUM | S to 10 ins., X 3.00 26.00 Juniperus Hetzi Glauca, |
| Send card today for our trade list. FARM OF PASCHKE North East, Pa. | ILEX CORNUTA BURFORDI | ANAMAR SECTION OF SECTION SECTIONS SERVICES |
| 19 years in mum business—eight acres. HARDY CHRYSANTHEMUMS | 2½-in. pot | |
| ROOTED CUTTINGS SHIPPED PREPAID | ILEX CRENATA CONVEXA BULLATA 24-in. pot | Leucothoe Catesbaei (Drooping Leucothoe), 1-yr., X. fiats 2.00 15.00 Ligustrum Lucidum (Waxleaf |
| Special collection No. 1, 25 each, 10 varieties our selection, labeled, for \$15.00 Prepaid, No. 3, 25 each, 20 varieties for \$30.00 Prepaid. | ILEX OPACA HUME NO. 2 | Privet), 6 to 8 ins., X 3.50 32.50 |
| Rt. 2 C. C. BREECE Delaware, O. | 2 1/4 -in. pot | Pieris Japonica, 4 to 6 ins., X 2.00 17.50 Pieris Japonica, 6 to 8 ins., X 2.50 22.50 |
| SEND FOR OUR | ILEX CRENATA ROTUNDIFOLIA | Regel's Privet, 2-yr., T |
| CHRYSANTHEMUM CATALOG Varieties you can't afford | 2¼-in, pot | 4 to 6 ins., X |
| to be without. WONDERLAND NURSERIES | 2 1/4 -in. pot | 4 to 6 ins., X 2.00 17.50 6 to 8 ins., X 2.60 22.50 Retinospora Gold-dust, |
| Box 3 Ellerson, Va. | LAUROCERASUS CAROLINIANA Laurel Cherry | 4 to 6 ins., X |
| EVERGREENS | 24-in. pot | 6 to 8 ins., X 3.50 22.50 |
| ROOTED CUTTINGS | 2 1/4 - In. pot | Ketinospora Pisitera Aurea, |
| Per 100 Reconversion | LIGUSTRUM JAPONICUM 2x3 ins., Seedlings | Retinospora Plumosa, 4 to 6 ins. X |
| Hex Rotundifolia 8 00 | LAGERSTROEMIA INDICA WM. TOOVEY | Retinospora Squarrosa Veitchi, 6 to 8 ins., X 2.50 22.50 |
| Juniperus Andorra 9.00 Juniperus Cummunis Aurea 10.00 Juniperus Pfitzeriana Compacta 12.00 | SPIRAEA ANTHONY WATERER | Taxus Cuspidata, 4 to 8 ins., X 2.00 17.50 Taxus Cuspidata, 6 to 8 ins., X 2.50 22.50 |
| Juniperus Sabina (Savin Juniper) 9.00 | 2 %-in. pot | Retinospora Squarrosa Veitchi, 6 to 8 ins., X |
| Taxus Andersoni 9.00 Taxus Browni 9.00 Taxus Cuspidata 8.00 | 1% x2% -in. Vita-Bands | Taxus Hicksi, 4 to 6 ins., X 2.25 17.50 Taxus Intermedia, 8 to 10 ins., X. 3.50 30.00 |
| Taxus Hicksi 9.00 | 2½-in. pot | Taxus Vermeulen, 8 to 10 ins., X. 3.00 27.50 ESHAM'S NURSERIES Millsboro, Del. |
| Taxus Kelseyi | 2 ¼ -in. pot | PINES |
| only. Free packing and parcel post charges | MAHONIA BEALEI | Pinus Strobus, White Pine, beautiful bluish, glossy green needles, 2 to 3 ft., \$25.00 |
| only. Free packing and parcel post charges prepaid. Cash with order, please. EDWARDS EVERGREEN NURSERIES | 2-in. pot | per 100; 3 to 4 ft., \$30.00 per 100; 4 to 6 ft., \$50.00 per 100. Sample doz., \$5.00. ROBINSON NURSERY CO. Greenville, Ga. |
| West LaFayette, O. | (Continued in next column.) | RUBINSON NURSERY CO. Greenville, Ga. |
| | | |

XUM

EVEDCDEENS Continued

| VARIETY SEEDLINGS FOR | SPRI | NG |
|---|--------|---------|
| THE PROPERTY OF THE | Per | |
| | | 1000 |
| Scotch Pine, 2-yr., 2 to 4 ins \$ | | |
| Scotch Pine, 2-yr., 2 to 4 ins | 4.00 | 20.00 |
| Block Fine, 2-yr., 4 to 6 ins | 4.00 | 20.0 |
| Riga Scotch Pine, 2-yr., 2 to 4 ins | 2 00 | 15 0 |
| 2 to 4 ins | 3.00 | 15.00 |
| Riga Scotch Pine, 2-yr., | | 00.00 |
| 4 to 8 ins | 5.00 | 25.00 |
| Scotch Pine, 3-yr., 5 to 8 ins | 6.00 | 30.00 |
| Scotch Pine, 3-yr., 8 to 12 ins | 8.00 | 40.00 |
| Austrian Pine, 2-yr., 3 to 5 ins | 4.00 | 20.00 |
| American Red Pine, 2-yr., | | |
| 2 to 3 ins | 3.00 | 15.00 |
| 2-yr., 3 to 5 ins | 5.00 | 25.00 |
| 3-yr., 4 to 8 ins | 6.00 | 30.00 |
| Mugho Pine (Dwarf), | | |
| 2-yr., 1 to 3 ins | 4.00 | 20.00 |
| 3-yr., 3 to 7 ins | 8.00 | 40.00 |
| White Pine, 2-yr., 3 to 6 ins | 4.00 | 20.00 |
| Norway Spruce, 2-yr., 3 to 6 ins. | 4.00 | 20.00 |
| White Spruce, 2-yr., 3 to 6 ins | 5.00 | 25.00 |
| White Spruce, 3-vr., 4 to 8 ins. | 8.00 | 40.00 |
| White Spruce, 3-yr., 4 to 8 ins Colorado Blue Spruce, 2-yr., | | |
| 2 to 4 ins | 5.00 | 25.00 |
| Colorado Blue Spruce, 2-yr., | | |
| 4 to 8 ins | 7.00 | 35.00 |
| Douglas Fir (Green), 2-yr., | 0.00 | 00.00 |
| 3 to 6 lns | 5.00 | 25.00 |
| Douglas Fir (Green), 2-yr., | 0.00 | 20.00 |
| 5 to 10 ins | 8.00 | 40.00 |
| Douglas Fir (Blue), 2-yr., | 0.00 | 40.01 |
| Douglas Fir (Diue), 2-yr., | 0 00 | 20.00 |
| 3 to 6 ins | 6.00 | 30.00 |
| Douglas Fir (Blue), 3-yr., | F 00 | |
| 4 to 8 insTRANSPLANTS | 7.00 | * * * * |
| | 0.00 | 00.00 |
| Scotch Pine, 2-1, 3 to 6 ins | 6.00 | 30.00 |
| Colorado Blue Spruce, 2-2, | | F0.00 |
| 3 to 5 ins | 10.00 | 50.00 |
| Colorado Blue Spruce, 2-2, | | |
| 4 to 8 ins | 12.00 | **** |
| Pennsylvania orders, add 1% s exemption certificate. Cash or 2 | ales t | ax to |
| exemption certificate. Cash or 2 | 5% d | eposit |
| with order. Balance, C.O.D. 5% | diacou | int on |
| quantities of 25,000. | | |
| SAM DIBLE NURSER | | - |
| R.F.D. 3 Sh | elocta | , Pa. |

| R.F.D. 3 | 9 helocta | , Pa |
|----------------------------------|------------------|----------|
| EVERGREENS, CONIFE | ROUS | |
| | to 10 | 10 ur |
| | Each | Each |
| Arborvitae, American, 2 to 3 ft | \$3.00 | \$2.71 |
| 3 to 4 ft | | 3.50 |
| Arborvitae elegantissima | | |
| (Golden), 2 to 3 ft | 9 75 | 2.50 |
| A phonyitae biota benita | | MI OF S |
| 18 to 24 ins | 3.00 | 2.75 |
| Arborvitae, Berckmans Golden, | 0.00 | Mr. 8 41 |
| 15 to 18 ins. | 2.25 | 2.10 |
| | | |
| 18 to 24 ins | 3.00 | 2.75 |
| Fir, Balsam, Douglas, Nordman | | |
| 2 to 21/2 ft | 3.00 | 2.75 |
| 21/2 to 3 ft | | 3.75 |
| 3 to 4 ft | 5.00 | 4.75 |
| 4 to 5 ft, | 6.50 | 6.25 |
| 5 to 6 ft | 8.00 | |
| Juniper, Andorra and Hetzi glau- | ca. | |
| 18 to 24 ins | 3.00 | 2.75 |
| 2 to 21/2 ft | 3.50 | 3.25 |
| 21/4 to 3 ft | | 4.00 |
| 3 to 31/2 ft | 5.25 | 5.00 |
| Juniper, Pfitzers, | 0.00 | W. C. C. |
| 18 to 24 ins | 3.25 | 3.00 |
| 2 to 21/2 ft | 4.00 | 3.75 |
| 2½ to 3 ft | 4.75 | 4.50 |
| 3 to 31/2 ft | 6.00 | 5.75 |
| | 3.50 | 3.25 |
| Pine, White, 2 to 3 ft | | |
| 3 to 4 ft | 4.75 | 4.50 |
| 4 to 5 ft | 6.50 | 6.00 |
| 5 to 6 ft | 9.00 | 8.50 |
| Spruce, Norway, 18 to 24 ins | 2.25 | 2.00 |
| 2 to 21/2 ft | 2.75 | 2.50 |
| 21/2 to 3 ft | 3.50 | 3.25 |
| Taxus Hicksi, 15 to 18 ins | 2.75 | 2.50 |
| 18 to 24 ins | 3.75 | 3.50 |
| 2 to 21/2 ft | 4.75 | 4.50 |
| 21/4 to 3 ft | 5.75 | 5.50 |
| 3 to 31/2 ft | 7.00 | 6.75 |
| 31/4 to 4 ft | 9.00 | 8.75 |
| Taxus capitata, 3 to 31/2 ft | 7.00 | 6.75 |
| 3½ to 4 ft | 9.00 | 8.75 |
| Taxus cuspidata, 15 to 18 ins | 3.25 | 3.00 |
| 18 to 24 ins | 4.00 | 3.75 |
| | | 0.10 |
| WAYNESBORO NURSEI | | |
| WAYNESBORO, VIRGI | NIA | |

| EVERGREENS | | | |
|------------------------------------|-----|------------|-------------|
| | | Per 100 | Per 1000 |
| Scotch Pine, 2-0, 3 to 6 ins | | \$3.50 | \$18.00 |
| Scotch Pine, 2-0, 3 to 8 ins | | 4.00 | 22.50 |
| Riga Scotch Pine, 2-0, 3 to 8 in | | 3,50 | 22.50 |
| Austrian Pine, 2-0, 3 to 5 ins | | 3.50 | 20.00 |
| Mugho Pine, 2-0, 2 to 4 ins | | 3.50 | 20.00 |
| 3-0, 4 to 6 ins | | 4.50 | 30.00 |
| 3-1, 4 to 6 ins | | 7.00 | 50.00 |
| Colorado Blue Spruce, 2-0, | | | |
| 2 to 4 ins | | 3.50 | 20.00 |
| 3-0, 3 to 6 ins | | 5.00 | 35.00 |
| 2-1, 2 to 4 ins | | 5.00 | 35.00 |
| Norway Spruce, 2-0, 2 to 6 ins | | 3.50 | 20.00 |
| 2-2, 4 to 8 ins | | 6.00 | 45.00 |
| 2-3, 8 to 10 ins | | 9.00 | 75.00 |
| White Spruce, 3-0, 2 to 6 ins | | 4.50 | 25.00 |
| Black Hills Spruce, 3-0, 2 to 4 in | ns. | 3.50 | 20.00 |
| Black Spruce, 3-0, 6 to 8 ins | | 5.00 | 35.00 |
| American Arborvitae, 2-1, | | | |
| 3 to 4 ins | | 5.00 | 35.00 |
| Terms: 2%, cash with order. | C | omple | ete list |
| of lining-out stock and potte | ed | ever | greens. |

JOHN G. ZELENKA Grand Haven, Mich.

EVERGREEN LINERS AND CUTTINGS POT-GROWN AND TRANSPLANTS Each Per 100 Per 1000

| Each Per | | Per 1000 |
|-----------------------------------|-------|----------|
| Arborvitae, American Dark Gree | n. | |
| 1-yr. pots | | 80.18 |
| Arborvitae, Globe, 1-yr. pots | .20 | .18 |
| Euonymus alatus compactus, | | |
| 2-yr. pots | .18 | .10 |
| Juniper, Blue Hetz, 1-yr. pots. | .20 | .18 |
| Juniper, Blue Hetz, 2-yr. pots. | | .21 |
| Juniper, Gold Pfitzer, 1-yr. pots | | .26 |
| Juniperus chinensis pfitzeriana, | | |
| 1-yr. pots | .24 | .23 |
| Juniperus pfitzeriana compacta, | | 100 |
| 1-yr. pots | .24 | .22 |
| Juniperus virginiana burki. | | |
| 1-yr. pots | 27 | .25 |
| HEAVY-ROOTED CUTT | TNICE | |
| From flats, rooted outside in 1 | | |
| Delivery now or spring. | | |
| | 1994 | |
| Arborvitae, American | 0.0 | .08 |
| Dark Green | .09 | |
| Arborvitae, elegantissima | ,10 | .09 |
| Arborvitae, Globe Woodward | | |
| (June 15) | | .08 |
| Arborvitae, Pyramid (June 15) | .09 | .08 |
| Boxwood, Korean | .09 | .08 |
| Euonymus alatus compactus | .09 | .08 |
| Euonymus erectus | | .06 |
| Euonymus vegetus | .07 | .06 |
| Juniper, Swedish | .09 | .08 |
| Juniperus chinensis pfitzeriana, | | |
| 6 ins | .11 | .10 |
| Juniperus glauca hetzi | .09 | .08 |
| Taxus browni | | .10 |
| Taxus cuspidata | .09 | .08 |
| Taxus hatfieldi | | |
| Taxus intermedia | | .10 |
| Taxus media hicksi | | |
| Taxus media, spreading | .11 | .10 |
| Terms: 2% discount and free | | king for |
| cash with order. Our stock guar | | |
| satisfactory or return within \$ | | |
| refund, plus full shipping charg | | |
| 250 plants at 1000 rat | | E PLA. |
| MIAMI NURSERY CO | | |
| Tipp City. O. | 2. | |
| Tipp City, O. | | |

LINERS

| Company of the compan |
|--|
| Grown in open field beds in peaty loam. |
| Per 100 |
| Chamaecyparis lawsoniana aurea, |
| 3 to 6 ins., T\$10.00 |
| Chamaecyparis lawsoniana ellwoodi, |
| new dwarf form, 3 to 5 ins., T 14.00 |
| Chamaecyparis plumosa aurea, |
| 3 to 5 ins., T 14.00 |
| Juniperus chinensis hetzi glauca, |
| 3 to 6 ins., T |
| 6 to 10 ins., T |
| Juniperus chinensis pfitzeriana. |
| 3 to 6 ins., T |
| Juniperus communis fastigiata. |
| 3 to 6 ins., T 10.00 |
| Juniperus horizontalis, 2 to 4 ins., T 12.00 |
| |
| Juniperus horizontalis plumosa, |
| 3 to 5 ins., T |
| Picea excelsa clanbrasiliana, |
| 1 to 3 ins., T |
| Picea excelsa nidiformis, |
| 2 to 4 ins., T 14.00 |
| Picea excelsa repens, 2 to 4 ins., T 14.00 |
| Thuja occidentalis aurea variegata, |
| 2 to 4 ins., T |
| Thuja occidentalis compacta erecta, |
| 4 to 6 ins., T 16.00 |
| Thuja occidentalis pyramidalis, |
| 3 to 6 ins., T 10.00 |
| 6 to 9 ins., T 14.00 |
| 9 to 12 ins 18.00 |
| Thuja occidentalis umbraculifera. |
| 4 to 6 ins., T |
| Thuja occidentalis woodwardi. |
| 4 to 6 ins., T |
| Write for complete catalog of Conifer, |
| Broad-leaved Evergreen, Azalea, Camellia |
| |
| and Heather liners. |
| MITSCH NURSERY |
| Aurora, Ore. |
| GRAFTED JUNIPERS |

| GRAFIED JUNIFERS |
|---|
| Eac |
| Canaerti, 2 to 3 ft., heavy\$2.2 |
| 3 to 4 ft 3.0 |
| Burki, 2 to 3 ft 2.0 |
| 3 to 4 ft 3.0 |
| 4 to 5 ft |
| 5 to 6 ft 5.0 |
| Glauca, 4 to 5 ft 2.5 |
| 5 to 6 ft 3.0 |
| Mascula, 3 to 4 ft 2.0 |
| Dundee, 2 to 3 ft 2.2 |
| 3 to 4 ft |
| Keteleeri, 2 to 3 ft 2.0 |
| 3 to 4 ft 2.5 |
| 4 to 5 ft 3.0 |
| Hetzi, 18 to 24 ins 2.0 |
| 24 to 36 ins |
| Pfitzer, 18 to 24 ins 2.0 |
| 24 to 36 ins 2.5 |
| All are grafted on Virginiana understock. |
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| AND LANDSCAPING CO. |
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For Immediate Delivery or for Reservation
All quotations are for beautiful lining-out
stock from 2%-in. pots, grown in open beds,
under field conditions and ready for field
planting.

| Planting. |
|--|
| Per 100 |
| ILEX CORNUTA BURFORDI (Chinese |
| ILEA CORNOTA BURFORDI (Cninese |
| Holly), 6 to 10 ins\$18.00 ILEX CORNUTA BURFORDI. |
| |
| 4 to 6 ins 16.00 ILEX CRENATA ROTUNDIFOLIA |
| |
| (Japanese Holly), 6 to 10 ins 16.00 |
| ILEX CRENATA BULLATA, |
| CONVEXA, 4 to 6 ins 14.00 |
| ILEX CRENATA BULLATA, |
| CONVEXA, 6 to 8 ins 16.00 |
| ILEX VOMITORIA FEMINA |
| (Yaupon), 8 to 10 ins 20.00 |
| OTHER BROAD-LEAVED EVERGREENS |
| EUONYMUS PATENS SIEBOLDI. |
| 6 to 10 ins |
| EUONYMUS RADICANS, |
| 6 to 10 ins |
| ABELIA GRANDIFLORA |
| 6 to 10 ins 15.00 |
| LIGUSTRUM LUCIDUM COMPACTA |
| (Black Wax) 6 to 8 ins 12.00 |
| LIGUSTRUM LUCIDUM REPANDENS |
| (Curved-leaved), 6 to 8 ins 12.00 |
| Our hollies are grown from either cut- |
| tings of grafts, from well-berried specimens. |
| insuring berries for you. |
| TERMS: Packing without cost. 25% with |
| order, balance C.O.D. Minimum 50 of a kind, |
| please. |

EVERGREEN NURSERIES 7433 Poplar Pike

| Germantown, Tenn. | | |
|---|-------|--------|
| Pe | er | |
| | 00 | 1000 |
| Arborvitae, Globe\$0. | .09 | \$0.08 |
| Arborvitae, Green Nigra | .08 | .07 |
| | 09 | .08 |
| | 13 | .12 |
| | 13 | .12 |
| | 13 | .12 |
| | 09 | .08 |
| | 69 | .08 |
| Taxus Capitata (Leaders). | 10.00 | .00 |
| | 16 | .14 |
| | | |
| Taxus Cuspidata, 5 to 8 ins | 08 | .07 |
| 1-YR. BEDS | 0.0 | .08 |
| Arborvitae, Green Nigra, | | |
| 6 to 10 ins | 17 | .15 |
| | 15 | .14 |
| PLANT BANDS | | |
| | 18 | .16 |
| | 22 | .20 |
| | 24 | .22 |
| | 16 | .15 |
| | 18 | .16 |
| Grafted Spruce, 2½-in. pot, \$1.25 Kosters and Moerheim Blues. | | |

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50 of a variety at 100 rate, 300 of a variety at 1000 rate, etc. Packing free. We will quote prices on quantities of 5000 or more.
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Fiint 6, Mich.

| O TOTAL DIRECTOR ACCRES | | t marrows. |
|---------------------------------|---------|------------|
| BROAD-LEAVED EVER | GREEN | IS |
| | 1 to 10 | 10 up |
| | Each | |
| Berberis verruculosa, | | |
| 15 to 18 ins | \$2.75 | \$2.50 |
| 18 to 24 ins | | 3.25 |
| Elaeagnus fruitlandi. | | |
| 18 to 24 ins | . 2.25 | |
| 2 to 3 ft | | |
| 3 to 4 ft | | |
| Euonymus patens, 15 to 18 ins. | | 1.50 |
| 18 to 24 ins | | 2.00 |
| 24 to 30 ins | | 2.50 |
| Ilex crenata, 18 to 24 ins | | |
| 24 to 30 ins | | |
| Ilex crenata rotundifolia. | | |
| 15 to 18 ins | 2.75 | 2.50 |
| Kalmia latifolia, 18 to 24 ins. | | 2.25 |
| 24 to 30 ins | | 3.25 |
| Ligustrum lucidum, | | |
| 24 to 30 ins | . 2.25 | 2.00 |
| 30 to 36 ins | | 2.50 |
| Osmanthus fortunei, 36 to 36 in | | |
| 36 to 42 ins | | |
| Rhododendron maximum, | | |
| 2 to 3 ft | . 3.00 | 2.75 |
| 3 to 4 ft | | 3.75 |
| Viburnum rhytidophyllum, | | |
| 18 to 24 ins | . 2.50 | 2.25 |
| 2 to 3 ft | | 3.25 |
| 3 to 4 ft | | 4.25 |
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| ROOTED CUTTINGS, SPRING | | |
| | | Per 1000 |
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| ins | 8.00 | 70.00 |
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| \$ to 6 ins | 8.00 | 70.00 |
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| Delicion | s Red | | | | 70 |
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| 11/16-in | . cal. and up.\$ | | 90.00 | 91 | 850.00 |
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| 18 to 24 | ins. | 2.90 | 25.00 | | |
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| 8 to 10 ins | .20 |
| field-grown, trimmed, branched, | .20 |
| 11 to 14 ins., spread | |
| | .55 |
| Andorra Juniper, 8 to 10 ins | .55 .40 .14 1/2 |
| Andorra Juniper, 8 to 10 ins Andorra Juniper, 10 to 12 ins Savin Juniper, 8 to 12 ins | .55 .40 .14 1/2 .20 |
| Andorra Juniper, 8 to 10 ins. Andorra Juniper, 10 to 12 ins. Savin Juniper, 8 to 12 ins. Von Ehron Juniper, 8 to 10 ins. Hill's Dark Green American | .55 .40 .14 1/2 .20 .20 |
| 8 to 10 ins. 10 to 12 ins. field-grown, trimmed, branched, 11 to 14 ins. spread 8 to 11 ins. spread Andorra Juniper, 8 to 10 ins. Andorra Juniper, 10 to 12 ins. Savin Juniper, 8 to 10 ins. Von Ehron Juniper, 8 to 10 ins. Hill's Dark Green American Arborvitae | .55 .40 .14 1/2 .20 .20 .20 |
| Andorra Juniper, 8 to 10 ins. Andorra Juniper, 10 to 12 ins. Savin Juniper, 8 to 12 ins. Von Ehron Juniper, 8 to 10 ins. Hill's Dark Green American Arborvitae Taxus cuspidata, 6 to 8 ins., 2-yr. Taxus cuspidata appliata, | .55 .40 .14 1/2 .20 .20 .20 .20 |
| Andorra Juniper, 8 to 10 ins. Andorra Juniper, 10 to 12 ins. Savin Juniper, 8 to 12 ins. Von Ehron Juniper, 8 to 10 ins. Hill's Dark Green American Arbovitae Taxus cuspidata, 6 to 8 ins., 2-yr. Taxus cuspidata capitata, 6 to 8 ins., 2-yr. Hex creats convexa (bullata). | .55 .40 .14 1/2 .20 .20 .20 .20 .20 |
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(Pat. 664) Sutter's Gold (Pat. 885). 1.40 15.00 105.00 PINK HYBRID TEAS | Sutter's Gold (Pat. 885) | 1.40 | 15.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105.00 | 105. Hill Top (Pat. 525)
Peace (Pat. 591) 1.6
Talisman 1.6
PLORIBUNDAS, PINK AND Ming Toy (Pat. 900) ... 1.15 12.00 80.00 CLIMBERS, PINK New Dawn

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Briarcliff
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The Doctor Red American Bea Blaze Mary Hart Ettolie de Hollande Paul's Scarlet Red Talisman Rouse Mallerin Red Radiance Plnk Radiance Plnk Radiance Golden Charm Mra du Pont Caledonia Talisman Cecile Brunner Picture TWO-TONE Talisman
Pres. Hoover
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Snow Queen
F. K. Druschki
Caledonia
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WHITE for our selection of choice patent
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New Dawn, pink
Prices
Per 10 Per 100 Per 1000
2 yr., No. 1½ 4.55 55 55.00 \$475.00
2 yr., No. 1½ 5.55 \$50.00 \$475.00
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Per 10 Per 100 Per 1000
Prestival, red thornless 10.00 \$5.00
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Katherine T. Marshal, pink. 10.00 90.00
Katherine T. Marshal, pink. 10.00 90.00
Red Pinocchio, deep-red 10.00 90.00
Red Pinocchio, deep-red 10.00 90.00
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SEEDS

| | WNS | | | | | |
|-----------------------|-------|-------|-------|-------|--------|------|
| Prepared especially | for t | he p | rofe | ssion | al tr | ade |
| | | | 54 | lbs. | 100 | 1bs. |
| Landscape Gardene | rs' M | ixtu | re.\$ | 34.00 | 36 | 6.00 |
| Park Lawn Mixture | | | | 29.00 | 5 | 5.00 |
| Cemetery Mixture | | | | 39.00 | 2 | 5.00 |
| Athletic Field Mixti | ure . | | | 28.00 | 5 | 4.00 |
| Shady Mixture | | | | 30.00 |) 5 | 8.00 |
| Contractors' Mixture | | | | 18.00 | 3 | 3.00 |
| F.O.B. New York. | 300 | lbs. | shi | pped | fre | ight |
| paid. | | | | | | |
| New, | | | | | | |
| Merion Blue | | | | | | |
| 1 lb. cove | | | | | | |
| \$4.50 per 1-lb. | cani | ster. | pos | tpaid | 1. | |
| Write for wholes | ale 1 | rice | lis | t wh | nich | in- |
| cludes descriptions o | fall | our i | forn | ulas | 1 28 1 | well |
| as prices for individ | | | | | | |
| HERBST | | | | 3 | | |
| SEEDS | | | | | | |
| 678 Broadway | P | lew | Yor | k 12 | . N. | Y. |
| | | | | | | |

SEEDLINGS

| DECIDIONS AND ORNA | acrostm. | |
|--|--|----------------|
| DECIDUOUS AND ORNA SEEDLINGS | | |
| Buckthorn Dahurian | Per 100 1 \$ 1.20 | \$ 10.00 |
| 4 to 6 ins | 1.50 | 12.50 |
| 6 to 12 ins | 3.00 | 25.00 |
| 12 to 18 ins | 4.50 | 40.00 |
| 2 to 3 ft | 4.50 5.60 8.00 | 50.00 |
| Caragana Arhorescens | 0.00 | 10.00 |
| 8 to 12 ins | 2.10 | 18.00 |
| 12 to 18 ins | 3.50 | 30.00 |
| 2 to 3 ft | 7.00 | 60.00 |
| Cornus Stolonifera, 4 to 6 ins | 2.50 | 17.50 |
| 12 to 13 ins | 3.50 | 30.00 |
| 18 to 24 ins | 6.00 | 55.00 |
| 2 to 3 ft | 7.50 | 70.00 |
| 12 to 18 ins. 18 to 24 ins. 2 to 3 ft. Caragana Arborescens, 8 to 12 ins. 12 to 18 ins. 2 to 3 ft. Cornus Stolonifera, 4 to 6 ins. 6 to 12 ins. 12 to 13 ins. 12 to 13 ins. 12 to 13 ins. Coryus Americana, 6 to 12 ins. Cotoneaster Acutifolia, | 3.50 | 30.00 |
| Cotoneaster Acutifolia, | | |
| 12 to 15 ins | 14.00 | 110.00 |
| Elm Chinese 6 to 12 ins | 1 20 | 10.00 |
| 12 to IS ins. 18 to 24 ins. Elm, Chinese, 6 to 12 ins. 2 to 3 ft. Honeysuckle, Tatarian, | 4.50 | 40.00 |
| Honeysuckle, Tatarian, | 21.00 | 40.00 |
| 6 to 12 ins | 2.50 | 20.00 |
| Locust, Black, 18 to 24 ins | 2.40 | 20.00 |
| 2 to 3 ft | 3.20 | 28.00 |
| 4 to 5 ft | 7.50 | 60.00 |
| Honeysuckle, Tatarian, 6 to 12 ins. Locust, Black, 18 to 24 ins. 2 to 3 ft. 3 to 4 ft. 4 to 5 ft. Locust, Honey, Thorniess, 8 to 12 ins. Nulberry, Russian, 8 to 12 ins. 18 ot 24 ins. 2 to 3 ft. | 1.00 | 00.00 |
| 8 to 12 ins | 1.90 | 16.00 |
| Mulberry, Russian, 8 to 12 ins | 1.20 | 10.00 |
| 18 ot 24 ins | 2.90 | 25.00 |
| 2 to 4 ft | 6.50 | 40.00 |
| Oak, Bur, 4 to 6 ins | 4.00 | 30.00 |
| 6 to 12 ins | 6.00 | 50.00 |
| 12 to 18 ins | 8.00 | 70.00 |
| 18 to 24 ins | 10.00 | 90.00 |
| 2 to 3 ft | 15.00 | 125.00 |
| 18 ot 24 ins. 2 to 3 ft. 3 to 4 ft. Oak, Bur, 4 to 6 ins. 6 to 12 ins. 12 to 18 ins. 18 to 24 ins. 2 to 3 ft. Oak, Bur, 6 to 6 ins. 18 to 24 ins. 2 to 3 ft. Oak, Red, 4 to 6 ins. Osage Orange, 8 to 12 ins. 12 to 18 ins. | 1.50 | 35.00 |
| 12 to 18 ins | 1.20 | 15.00 |
| 12 to 18 ins | 2.40 | 20.00 |
| 2 to 3 ft | 2.90 | 25.00 |
| Peach, 6 to 12 ins | 2.75 | 22.50 |
| 12 to 18 ins | 3.50 | 30.00 |
| 18 to 24 ins | 4.00 | 35.00 |
| 2 to 3 ft | 6.00 | 55.00 |
| 3 to 4 ft. Plum, Native, No. 3, 1½ to 2/16-in. cal. No. 2, 2/16 to 3/16-in. cal. No. 1, 3/16 to 1/4-in. cal. No. 1, 3/16 to 1/4-in. cal. 1/4-in. cal. and up Prunus Melanocarpa (Chokeche 6 to 12 ins. | 2.90 4.50 6.50 6.00 8.00 10.00 15.00 4.50 1.20 1.80 2.40 2.75 3.50 6.00 6.00 | 00.00 |
| No. 3, 11/2 to 2/16-in. cal | 2.10 | 18.00 |
| No. 2, 2/16 to 3/16-in. cal | 2.90 | 25.00 |
| No. 1, 3/16 to 1/4-in. cal | 4.50 | 40.00 |
| Prunus Melanocarna (Chokeche | rrv). | 45.00 |
| 6 to 12 ins | 3.00 | 25.00 |
| 8 to 15 ins | 5.00 | 40.00 |
| 18 to 24 ins | 7.00 | 65.00 |
| Prunus Padus Commutata (Mayday), | | |
| 4 to 6 ins | 2.50 | 20.00 |
| 4 to 6 ins | 2.50 6.00 | 55.00 |
| Prunus Serotina | | |
| (Wild Black Cherry), 8 to 12 ins | | |
| 8 to 12 lns | 3.00 4.00 | 20.00 |
| 18 to 24 ins. | 4.00 | 30.00 |
| 2 to 3 ft | | 40.00 |
| 12 to 18 ins. 18 to 24 ins. 2 to 3 ft. 3 to 4 ft. | 8.00 | 70.00 |
| Rosa Multiflora, 6 to 9 ins | 1.25 | 10.00 |
| Viburnum Lentago | 0.00 | E 0 00 |
| (Nannyberry), 4 to 8 ins 6 to 12 ins. Viburnum Opulus (Highbush Cranberry), 4 to 6 ins | 10.00 | 50.00 85.00 |
| Viburnum Opulus (Highbush | - 2144 | |
| Cranberry), 4 to 6 ins | 6.00 | 50.00 |
| 6 to 12 ins | 10.00 | 85.00 |
| | | 25.00 |
| 4 to 6 ins. | 6.00 | 50.00 |
| 6 to 12 ins | 10.00 | 85.00 |
| 2 to 4 ins. 4 to 6 ins. 6 to 12 ins. PLUMFIELD NURSERIE P. O. Box 7 Phone: 581 F | S, INC. | ** * |
| P. O. Box 7 Phone: 581 F | remont, | Neb. |

SHRUBS and TREES

| | Amur River and Ibolium |
|----------|--|
| 12 to 18 | Per 100 ins |
| This is | Packing extra at cost. good strong, 2-yr. stock, grown for landscape business, cut back at |

This is about landscape business, our own landscape business, 1-yr., making strong, clean plants.
THE CLYDE NURSERY Clyde, O.

| SHADE TRI | | | (Continued from previous | ous colu | mn.) | POTTED GRAFTS FOR SPRING | 3. 1954 |
|--|---------------------|----------------------|---|--------------------|--------------------|---|--------------------|
| Ash. Green, 3 to 4 ft. \$ 6.5 | 0 % 60 00 | | rose, white center | x x | | Acer Palmatum Atropurpureum | Par 100 |
| 4 to 5 ft 8.0 5 to 6 ft 11.0 | 0 75.00 0 100.00 | | Chas. Joly, d., purple Chas. X. m., reddish- | . x | х | | |
| Ash, Mountain, European, 3 to 4 ft 7.0 | | | purple | x x | x | Dessictum | 50.00 |
| 4 to 5 ft 11.0 5 to 6 ft 16.5 | | | blue | | * | Cornus Florida Pendula | 50.00 |
| 6 to 8 ft 20.00 8 to 10 ft 28.00 1½ to 1½-in. cal 32.50 | 250.00 | | Edmond Bossier, s., purplish-red | | | Magnetta Lennei | 00.00 |
| | | **** | General Sheridan, d., white | | | Magnolia Rustica Rubra Magnolia Soulangeana Magnolia Soulangeana Nigra Magnolia Stellata Magnolia Stellata Magnolia Stellata Magnolia Stellata Wateriliy Picea Pungens Moerheimi Pinus Cambra | 65.00 |
| 2 10 3 11 6 00 | 45.00 65.00 | **** | Lean Cambatta d | . x | - | Magnolia Soulangeana Nigra | 60.00 |
| 3 to 4 ft 7.00 4 to 5 ft 9.00 5 to 6 ft 12.00 | 85.00 110.00 | | lavender | : : | x | Magnolia Stellata Waterlily | 60.00 |
| 2 to 3 ft. 5 ft. | | | Marie LeGraye, s., white Michel Buchner, s., | . x | x | Picea Pungens Moerheimi Pinus Cembra | 50.00 |
| 3 to 4 ft N.50 | 80.00 | | | x x | x | Pinus Parviflora Glauca Pinus Strobus Nana Pinus Strobus Pendula Teuro Caradonia Hatamania | |
| 4 to 5 ft | 135.00 | **** | Mme. A. Chatenay, d., white | | x | Pinus Strobus Pendula Tsuga Canadensis Heterophylla Tsuga Canadensis Sargenti | 50.00 |
| 3 to 4 ft 2.90 | 25.00 40.00 | \$ 220.00 370.00 | Mme. Stepman, s., white | | x | Tsuga Canadensis Sargenti Wistaria Multijuga Lavender | 50.00 |
| 4 to 5 ft. 4.50 5 to 6 ft. 7.00 6 to 8 ft. 11.00 8 to 10 ft. 16.50 | 65.00 | 600.00 | President Grevy, d., bluish-lilac | | × | ROOTED CUTTINGS TRANSPLANTED IN FLAT | |
| 8 to 10 ft 16.50 Linden, American | 100.00 150.00 | 900.00 1400.00 | Vaubon, deep lilac | K X | × | Azalea Hino-Crimson. | Per 1000 |
| 2 to 3 ft 3.50 3 to 4 ft 5.50 | 30.00 | | Volcan, s., pink Philadelphus Glacier, Per 10 | Per 100 | Per 1000 | 4 to 6 ing 415 00 | \$125.00 125.00 |
| | 50.00 | **** | 12 to 18 ing \$2.00 | \$28.00 35.00 | \$250.00 300.00 | ROOTED CUTTINGS, 1-YR., BEI | DED |
| 4 to 5 ft 6.50 5 to 6 ft 11.00 | 100.00 | | Is to 24 ins | 6.00 | 50.00 | Ilex Bullata, 4 to 6 ins 10.00 | 85.00 |
| f to 8 ft 16.50 Poplar, Gelrica, | 150.00 | **** | 12 to 18 ins., 3 canes 18 to 24 ins., 2 canes 18 to 24 ins., 3 canes | 12.00 | 100.00 | | 100.00 90.00 |
| 3 to 4 ft 4.00 4 to 5 ft 5.00 | 35.00 45.00 | **** | 18 to 24 ins., 3 canes Privet, Russian Golden, 2-yr., | 16.50 | 140.00 | | 100.00 100.00 |
| 4 to 5 ft | 60.00 | **** | 6 to 12 ins 2.40 12 to 15 ins 3.20 | 20.00 | **** | ryracantna Lalandi, potted 20.00 | 100.00 |
| Poplar, Lombardy, 2 to 3 ft 1.50 | 10.00 | | 15 to 18 ins 4.00 Spiraea Billiardi, | 28.00 35.00 | **** | 6 to 8 ins 10.00 | 90.00 |
| 2 to 3 ft | 15.00 65.00 | 600.00 | 18 to 24 ins 4.00 | 35.00 | 300.00 | Retinospora Plumosa Aurea, 6 to 8 ins 16.00 | 90.00 |
| 3 to 4 ft. whips 3.00 | 25.00 | | 2 to 3 ft 5.00 3 to 4 ft 6.50 | 45.00 60.00 | 400.00 550.00 | Taxus Brevifolia, 4 to 6 ins. 10.00 Taxus Cuspidata, 4 to 6 ins. 10.00 Taxus Hatfieldi, 4 to 6 ins. 10.00 | 90.00 |
| 4 to 5 ft. whips 4.00 5 to 6 ft. whips 5.00 | 35.00 45.00 | **** | Spiraea Froebell, 9 to 12 ins 2.10 Spiraea Multiflora, | 18.00 | | Taxus Micksi, 4 to 6 ins 10 00 | 90.00 |
| | 60.00 35.00 | **** | 12 to 18 ins 2.90 | 25.00 | | Thuja Globosa, 5 to 8 ins 10.00 Thuja Nigra, 4 to 6 ins 10.00 | 90.00 |
| 4 to 5 ft. br 5.00 | 45.00 | **** | 2 to 3 ft 5.00 | 35.00 45.00 | 300.00 400.00 | Thuia Vervaeneana, 5 to 8 ins. 12.00 | **** |
| \$ to 6 ft. br 6.50 6 to 8 ft. br 10.00 Poplar, Missouriensis, | 90.00 | **** | 12 to 18 ins 2.40 | 21.00 | 180.00 | Viburnum Burkwoodi, 12 to 15 ins | 35.00 |
| 2 to 3 ft. whips 2.50 | 20.00 | **** | 18 to 24 ins 3.20 2 to 3 ft 4.00 | 28.00 35.00 | 240.00 300.00 | 1-YR. SEEDLINGS Acer Palmatum, 6 to 8 ins 4.00 | 35.00 |
| | 25.00 35.00 | **** | Symphoricarpos Mollis, | 22.00 | 200.00 | Cornus Florida, 6 to 15 ins 4.00 2-YR. SEEDLINGS | 35.00 |
| 6 to 8 ft. whips 6.50 5 to 6 ft. br 6.50 6 to 8 ft. br 10.00 8 to 10 ft br 14.00 | 60.00 | **** | 2 to 3 ft 3.20 3 to 4 ft 4.50 | 28.00 40.00 | 250.00 350.00 | Ilex Crenata, 4 to 6 ins 6.00 | 50.00 |
| | 90.00 125.00 | **** | | 22.00 | 200.00 | 3-YR. SEEDLINGS Balsam Fir, 3 to 5 ins 4.00 | 35.00 |
| Redbud, 12 to I8 ins 3.00 18 to 24 ins 4.00 | 25.00 35.00 | | 18 to 24 ins 2.50 2 to 3 ft 3.20 Symphoricarpos Vulgaris. | 28.00 | 250.00 | Balsam Fir, 3 to 5 ins 4.00 Picea Alba, 4 to 6 ins 3.50 Picea Excelsa, 4 to 6 ins 3.50 | 25.00 25.00 |
| 2 to 3 ft 5.50 3 to 4 ft 8.50 | 50.00 | **** | 18 to 24 ins 2.50 2 to 3 ft 3.20 | 22.00 28.00 | 200.00 250.00 | | 35.00 |
| | | | Tamarix Hispida. 12 to 18 ins 2.90 | 25.00 | 200.00 | 4 to 6 ins 4.00 Pinus Alba Mugho, 3 ins 4.00 Pinus Strobus, 4 to 6 ins 3.50 | 30.00 25.00 |
| 1 % to 2-in. cal 32.50 Poplar, Lombardy, 1-yr. from cuttings, 12 to 18 ins. 18 to 24 ins. | Per 100 1 | Per 1000 \$ 25.00 | 18 to 24 ins 4.00 | 35.00 | 300.00 | Pinus Sylvestris, 4 to 6 ins 3.50 Thuja Occidentalis, 3 to 4 ins 5.00 | 25.00 40.00 |
| | | 40.00 60.00 | 2 to 3 ft 5.00 3 to 4 ft 5.50 4 to 5 ft 7.00 | 45.00 50.00 | 400.00 | Thuia Orientalia, 8 to 12 ins 3.50 | 30.00 50.00 |
| | | 75.00 | Viburnum Arrowwood, | 65.00 | 600.00 | Tsuga Caroliniana, 3 to 4 ins 6.00 | 50.00 |
| Poplar, Norway, 1-yr., from cuttings, 3 to 4 ft. | 7.00 | 60.00 80.00 | 18 to 24 ins 4.50 Viburnum Dentatum, | 40.00 | **** | Picea Excelsa, 6 to 8 ins 6.00 | 50.00 |
| 4 to 5 ft | 12.00 | 100.00 150.00 | 12 to 18 ins 3.50 TERMS: Cash with order un | 30.00 nless cre | dit has | Picea Excelsa, 6 to 8 ins 6.00 Picea Excelsa, 10 to 15 ins 15.00 Picea Pungens Glauca, | 140.00 |
| 6 to 8 ft. SHRUBS | Per 100 I | | been established. PLUMFIELD NURSERI | ES, INC | | | 50.00 |
| Cornus Alba Sibirica, 12 to 18 ins \$2.40 | | | | Fremon | - | Picea Alba, 6 to 8 ins 6.00 Tsuga Canadensis, 5 to 8 ins 10.00 Tsuga Canadensis, 8 to 10 ins 15.00 | 95.00 140.00 |
| 18 to 24 ins 3.50 Cydonia Japonica, | 30.00 | **** | Althea, Pink, Purple, Red, Wh | Per 10 | Per 100 | Tsuga Canadensis, 10 to 12 ins. 20.00 VAN DINE NURSERY | 190.00 |
| 12 to 18 ins 2.90 18 to 24 ins 3.80 | 25.00 33.00 | \$300.00 | 2 to 3 ft 3 to 4 ft 4 to 6 ft Deutzia, Crenata and Pride of | \$ 4.00 5.00 | | Berdan Ave. Preakness, Paterson, N. J. | |
| Forsythia Intermedia, | 38.50 | | Deutzia, Crenata and Pride of | 7.50 | | LINING-OUT STOCK | |
| 18 to 24 ins 4.40 2 to 3 ft 5.50 Honeysuckle, Cardinal, | 50.00 | 350.00 450.00 | 3 to 4 ft | 5.00 | \$ 35.00 45.00 | Fall, 1953—Spring, 1954 Per | Per |
| 12 to 18 ins 2.90 18 to 24 ins 4.00 | 25.00 35.00 | **** | Dogwood, Red Stem, 3 to 4 ft | 5.00 | 70.00 45.00 | 500 Acer Platanoides, | 1000 |
| 2 to 3 ft 5.00 Honeysuckle, Plumfield Red. | 45.00 | **** | 4 to 6 ft | | 70.00 | 1-yr. sdigs \$ 7.00 | \$60.00 |
| 18 to 24 ins 4.00 Honeysuckle, Pink Tatarian, | 35.00 | **** | 18 to 24 ins | 6.00 | 40,00 55,00 | 1-yr. sdlgs 5.50 2150 Azalea Mollis, 2-yr., T 25.00 | 45.00 200.00 |
| 18 to #4 ine 4 00 | 35.00 | *** | Forsythia, Fortunei, Spectabilia Suspensa Viridissima, | 8. | | 3500 Cornus Kousa, 1-vr. adlgs 5.50 | 45.00 |
| 3 to 4 ft 6.00 4 to 5 ft 7.00 | 55.00 65.00 | **** | 3 to 4 ft | 5.00 | 35.00 45.00 | 1000 Cotoneaster Divaricata, 2-yr., T, 9 to 12 ins., | |
| 12 to 18 ins 2.90 | 25.00 | **** | Forsythia Spring Clary | 1.50 | 70.00 | FR | 250.00 |
| 18 to 24 ins 4.00 3 to 4 ft 6.00 | 35.00 55.00 | **** | 2 to 3 ft | 4.50 5.50 | 40.00 50.00 | 1-yr. sdlgs 4.50 | 35.00 |
| 3 to 4 ft. 6.00 4 to 5 ft. 7.00 Honeyauckle, Zabeli, | 65.00 | **** | Hydrangea P. G., 3 to 4 ft | 7.50 | 70.00 | 1440 Euonymus Radicans, 2-yr. TT, FR 35.00 300 Euonymus Radicans Carrierei, | 300.00 |
| 18 to 24 ins 4 00 | 25.00 35.00 | **** | Lilac, Chinese Purple, 3 to 4 ft. Lilac, Chinese Purple, 4 to 6 ft. Philadelphus Coronarius | 12.00 | 100.00 | 2-yr., TT, FR 35.00 1000 Hydrangea P.G., | 300.00 |
| 2 to 3 ft 5.00 Hydrangea Pee Gee | 45.00 | **** | 3 to 4 ft | 5.50 | 50.00 | 1-yr., 9 to 12 ins 15.00 1000 Hydrangea P.G., 2-yr. T., | 140.00 |
| 12 to 18 ins 3.20 18 to 24 ins 4.50 | 28.00 40.00 | 250.00 350.00 | 4 to 6 ft | 7,50 | 70.00 | 12 to 15 ins., FR 30.00 | 250.00 |
| Lilac, Common Purple, 12 to 18 ins 2.90 | 25.00 | 220.00 | Snowball, Japanese, 3 to 4 ft. Snowball, Japanese, 4 to 5 ft. WAYNESBORO NURSE | 14.50 | 90.00 | 3500 Koelreuteria Paniculata, 1-yr., sdigs 7.00 | 60.00 |
| Lilac, Persian Purple, 12 to IS ins 3.20 | 28.00 | **** | WAYNESBORO, VIRG | INIA | | 1-yr., sdigs | 300.00 |
| 18 to 24 ins 4.50 2 to 3 ft 5.50 | 40.00 | 350.00 450.00 | Buddleia, summer lilac, 2-ins., | BS | hand- | 1-yr. 801K8 1.00 | 60.00 |
| Lilac, French, 12 to IR ins 4.50 | 40.00 | | | | | 1000 Rosa Rugosa, 6 to 8 ins 8.50 1000 Rosa Rugosa, | 75.00 |
| 18 to 24 ins 6.50 2 to 3 ft 8.50 | 60.00 80.00 | **** | Charming, deep pink Dubonnet, lavender Imperial Purple, purple | ****** | 12.50 | 3000 Tsuga Canadensis, 3-yr., | 110.00 |
| 3 to 4 It | 18 to | 12 to | Imperial Purple, purple Red Velvet, red Royal Scarlet, deep red | ******* | 15.00 | 6 to 9 ins., TT 15.00 T—Once Transplanted | 140.00 |
| Alphonse Lavallee, d., | 24 ins. | 18 ins. | | | | TT—Twice Transplanted FR—Field Row | |
| purple x x (Continued in next colu | X | x | Ready for delivery about M Order now for Spring D FLORAL GARDENS | elivery. | | -Samples mailed on request- BOULEVARD NURSERIES | |
| Continued in next con | satter.) | | FLORAL GARDENS | Eat | on, O. | Newport, R. I. | |

| SHRUBS and TREES—Continued | STOCK FOR GROWING ON | NURSERY STOCK |
|--|---|--|
| FLORETUM OUTSIDE-GROWN LINERS Winter-Hardened, Fully Acclimated, Heavy | 1-yr., Bedded Per 100 Per 1000 Ilex Convexa | Acer ginnala 10 Rate 100 Rate 100 3 to 4 ft \$0.60 \$0.55 |
| Roots. Not Stored, Dug Fresh on Order. One Source Specials—Reduces Cost! | Ilex Rotundifolia | 100 4 to 5 ft |
| 25 at 100 Rate Per 100 Fioretum Lilium Formosanum, large, | Taxus Capitata, S., 2-yr., T 16.00 150.00 | Aronia arbutifolia 100 2 to 3 ft |
| white, long-stemmed. Prolific grow- er; blooms Aug. to Oct. | Taxus Cuspidata | Calluna vulgaris—Named varieties 300 3 to 6 ins. pot grown35 .30 |
| 1-yr. bulbs, many bloom (per 1000, \$25.00)\$ 3.00 | Taxus Hicksi | Caragana arborescens |
| 2-yr. bulbs, all bloom (per 1000, \$35.00) | Taxus Intermedia | 100 4 to 5 ft 1.00 .90 Celastrus orbiculata punctata |
| 3-yr. bulbs, choice, blooming size 12.00 Regal Lily, 1-yr. bulbs, blooms July . 4.00 | Sarcococca Hookeriana 25.00 200.00 Andromeda Japonica, pot- | 300 3 yr. strong |
| Pyracantha coccinea lalandi, 5 to 6 in. 15.00 9 to 11 ins | grown | 300 3 to 4 ft |
| 9 to 11 ins | Acer Palmatum, 1-yr., S 8.00 50.00 Ables Concolor, 1-yr., S 5.00 45.00 Ables Douglasi, 2-yr., S 4.00 35.00 | 50 18 to 24 ins |
| 10 to 12 ins | Acter Palmatum, 1-yr., 8. 8.00 50.00 Ables Concolor, 1-yr., S. 5.00 45.00 Ables Douglasi, 2-yr., S. 6.00 55.00 Ables Fraseri, 2-yr., S. 6.00 55.00 Ables Veitchl, 2-yr., S. 6.00 50.00 Biota Orientalis, 2-yr., S. 3.50 30.00 Cornus Florida, No. 1, 1-yr., S. 6.00 50.00 Cornus Florida, No. 2, 1-yr., S. 5.00 40.00 Cornus Kousa, 1-yr., S. 7.50 70.00 Cornus Kousa, 1-yr., S. 7.50 70.00 | 200 4 to 5 ft 1.00 .90 100 5 to 6 ft 1.25 1.10 |
| Magnolia Grandiflora, hardy stock, 4 to 6 ins | Biota Orientalis, 2-yr., S 3.50 30.00 Cornus Florida, No. 1, 1-yr., S. 6.00 50.00 | Euonymus vedoensis |
| Floretum Bald Cypress, 12 to 15 ins 25.00 Floretum Bald Cypress, 18 ins. and up. 35.00 European Deciduous Larch, 1-yr., S 6.00 | Cornus Florida, No. 2, 1-yr., S. 5.00 40.00 Cornus Kousa, 1-yr., S 7.50 70.00 | 75 3 to 4 ft |
| Evergreen Yucca Filamentosa 12.00 Yucca Glauca, white-margined leaves . 12.00 | Cornus Kousa Chinensis, 1-yr., S | Gleditsia triacanthos inermis 100 4 to 5 ft 1.25 1.10 |
| Evergreen Euonymus Vegetus, | 1-yr., S | Larix leniolenia |
| Evergreen Euonymus Vegetus, 8 to 15 ins | Ilex Crenata, 2-yr., S | 150 2 to 3 ft. B&B 2.25 2.00 100 3 to 4 ft. B&B 2.75 2.50 |
| Red Winterberry Holly, 4 to 8 ins 12.00 | Picea Pungens, 2-yr., S 3.50 30.00 Picea Pungens, 3-yr., S 4.50 40.00 | Myrica pensylvanica 400 18 to 24 ins 1.25 250 2 to 2½ ft 1.60 |
| Scarlet Berry Yaupon Holly, 4 to 6 ins. 15.00 Chittamwood, rare flowering tree, | Picea Engelmanni, 2-yr., S 3.50 30.00 Picea Engelmanni, 2-yr., S 3.50 30.00 | l'hotinia villosa |
| 5 to 6 ins | Pinus Austriaca, 2-yr., S 7.00 60.00 Pinus Densiflora, 2-yr., S 6.00 50.00 Pinus Mughus, 3-yr., S 6.50 60.00 | 100 3 to 4 ft |
| Weeping European Ash, 6 to 8 ins 6.00 Rare Flowering Ash, 6 to 8 ins 6.00 | Finus Svivestris, 2-vr., S 3.00 25.00 | Pinus mugo mughus 200 12 to 15 ins. B&B 2.50 2.25 |
| Mimosa (Pink Silk Tree), 4 to 12 ins 4.00 Sycamore Maple, rare, 10 to 12 ins 8.00 | Pinus Strohus, 2-yr., S 6.00 50.00 Pinus Strohus, 2-yr., S 5.50 30.00 | Pinus strobus 50 5 to 6 ft. B&B 5.50 |
| Amur Ginnala Maple, colorful. | Pinus Thunbergl, 2-yr., S 5.50 50.00 Syringa Vulgaris, 1-yr., S 3.00 25.00 | 50 6 to 7 ft. B&B 6.50 Pinus strobus pyramidalis |
| 6 to 8 ins | Tsuga Canadensis, 2-yr., T., 4 to 6 ins | 15 10 to 12 ft. B&B 30.00 Quercus palustris, Pin Oak |
| Giant Shagbark Hickory, 8 to 12 ins 10.00 Scaly-bark Hickory, 8 to 12 ins 10.00 Chinese Chestnut, bl. res., 12 to 15 ins 30.00 | 4 to 6 ins | 50 6 to 8 ft 5.00 Rhamnus davurica 400 3 to 4 ft |
| American Filbert (Hazelnut). | Cornus Florida, 18 to 24 ins., heavy | Rosa rugosa alba 200 18 to 24 ins |
| May Day Tree (Prunus Padus), | Cornus Florida, 2 to 3 ft., heavy 80.00 750.00 | Salix matsudana tortuosa |
| Native Red Oak 1-ve adles | Cornus Kousa, 2 to 3 ft., heavy 100.00 900.00 | 75 5 to 6 ft 1.75 Thuja, Booth Globe Arborvitae 500 12 to 15 ins. B&B 1.75 |
| 4 to 12 ins 6.00 White Oak (4 to 6 ins., \$3), 1 to 2 ft. 6.00 Beauty-berry (Callicarpa Dichotoma), | Franklinia Alatamaha, to 3 ft 150.00 Franklinia Alatamaha, | Tsuga canadensis, Canada Hemlock 300 18 to 24 ins. B&B 2.75 2.50 |
| 8 to 12 ins | 3 to 4 ft 250.00 | Viburnum lentago, Nannyberry Viburnum |
| 3 to 5 ins 6.00 Scotch Broom, showy novelty, | Rhododendron Hybrids, grafted, 1-yr., field-grown; all named varieties in different colors. | 50 3 to 4 ft |
| | \$75.00 per 100. Our full list of stock on demand. | KELSEY-HIGHLANDS NURSERY Box 860 East Boxford, Mass. |
| Siberian Pea Shrub, 6 to 12 ins. 4.00 Boston Ivy (1-yr., \$6), 2-yr. T. 8.00 Biota Orientalis Compacta, dwarf, 3-yr., 10 to 20 ins. 6.00 | VERKADE'S NURSERIES Wayne, N. J. | LINING-OUT STOCK |
| 3-yr., 10 to 20 ins. 6.00 2-yr., 8 to 12 ins. 4.00 1-yr. S. 3.00 | SHRUBS. Available for immediate delivery. Priced F.O.B. Mentor, O. | Priced per 100 6 to 8 to 12 to 8 ins. 12 ins. 18 ins. |
| Biota Orientalis Pyramidalis, 1-yr. S 3.00 Biota Orientalis Aurea, 1-yr. S 3.00 | Derberia, thorntess, 10 25 100 | Abelia Grandiflora \$ 8.00 \$10.00 |
| Austrian Pine (Nigra), 2-vr., 4 to 6 ing. 4.00 | 18 to 24 ins \$ 7.70 \$17.50 \$ 70.00 Cotoneaster, Divaricata, 8 to 4 ft 6.60 15.00 60.00 | field-grown 10.00 15.00 \$20.00 Camellia Sasanqua, varieties, |
| 4 to 6 ins 4.00 | 8 to 4 ft | Cleopatra and Rosea 17.50 25.00 Crape Myrtle, Scarlet, |
| Eastern White Pine, 1-yr. S 3.00 | | field-grown 15.00 20.00 |
| Mugho Pine, dwarf strain, 1-yr. S 4.00 | Deutzia Gracilis, 15 to 18 ins 4.95 11.25 45.00 | Gardenia Mystery 10.00 12.00 |
| American Red Pine, 1-yr. 8 | Deutzia Gracilis, 15 to 18 ins | Ilex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S 5.00 Riga Scotch Pine, 1-yr. S 3.00 No packing charge—Remittance with order. | Deutzia Gracilis, 15 to 18 ins | Hex Cornuta Burfordi 15.00 20.00 Hex Cornuta Femina 15.00 20.00 Hex Copaca Howardi 15.00 20.00 Hex Crenata Rotundifolia 15.00 17.50 Ligustrum Japonicum. |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 No packing charge—Remittance with order. PRAIRIE SOUTHWEST FLORETUM Fall River, Kan. | Deutzia Gracilis, 15 to 18 ins | Hex Cornuta Burfordi 15.00 20.00 Hex Cornuta Femina 15.00 20.00 Hex Opaca Howardi 15.00 20.00 Hex Opaca Howardi 15.00 20.00 Hex Crenata Rotundifolia 15.00 17.50 Ligustrum Japonicum, heavy 5.00 Magnolia Soulangeana 25.00 25.00 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 No packing charge—Remittance with order. PRAIRIE SOUTHWEST FLORETUM FAIR RIVER, Kan. FINEST MICHIGAN-GROWN. FLOWERING CRAB APPLES | Deutzia Gracilis, 15 to 18 ins | Ilex Cornuta Burfordi 15.00 20.00 Ilex Cornuta Femina 15.00 20.00 Ilex Opara Femina 15.00 20.00 Ilex Opara Howardi 15.00 20.00 Ilex Crenata Rotundifolia 15.00 17.50 Ligustrum Japonicum, heavy 5.00 35.00 Magnolia Soulangeana 25.00 25.00 Magnolia Soulangeana 25.00 35.00 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 3.00 No packing charge—Remittance with order. PRAIRIE SOUTHWEST FLORETUM Fall River, Kan. FINEST MICHIGAN-GROWN, FLOWERING CRAB APPLES Each Arnold 1-yr. 2 to 3 ft. 50.75 | Deutzia Gracilis, 15 to 18 ins | Name |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 3.00 No packing charge—Remittance with order. PRAIRIE SOUTHWEST FLORETUM Fall River, Kan. FINEST MICHIGAN-GROWN. FLOWERING CRAB APPLES Arnold 1-yr. 2 to 3 ft. \$0.75 Atrosanguinea, 1-yr., 2 to 3 ft. 50.75 Baccata Columnaris (135-42-A), NEW, white flowers 1-yr., 2 to 3 ft. 10.00 | Deutzia Gracilis, 15 to 18 ins | 1 |
| Arnold 1-yr. 2 to 3 ft. 1.00 Arnold 1-yr. 2 to 3 ft. 1.50 Arnold 1-yr. 2 to 3 ft. 1.50 Carpus Snaeth 1: 2 to 1 ft. 1.50 | Deutzia Gracilis. 15 to 18 ins | Name |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SOUTHWEST FLORETUM FRINEST MICHIGAN-GROWN, FLOWERING CRAB APPLES Each Arnold 1-yr. 2 to 3 ft. 5.07 Atrosanguinea, 1-yr., 2 to 3 ft. 75 Baccata Columnaris (135-42-A), NEW, white flowers, 1-yr., 2 to 3 ft. 1.00 2-yr., 4 to 8 ft. 1.50 Cornus Spaethi, 12 to 18 ins. T. 50 | Deutzia Gracilis, 15 to 18 ins | Name |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SOUTHWEST FLORETUM FAIRIES SOUTHWEST FLORETUM FAIRIEST MICHIGAN-GROWN, FLOWERING CRAB APPLES Each Arnold 1-yr. 2 to 3 ft. 75 Atrosanguinea, 1-yr., 2 to 3 ft. 75 Baccata Columnaris (135-42-A), NEW, white flowers, 1-yr., 2 to 3 ft. 1.00 2-yr. 4 to 8 ft. 1.50 Cornus Spaethi, 12 to 18 ins. T. 50 Cornus Elegantissima, 1-yr. liners 20 Cotoneaster, spreading 2 to 3 ft. 1.00 | Deutzia Gracilis. 15 to 18 ins | Itex Cornuta Burfordi |
| American Red Pine, 1-yr. S | Deutzia Gracilis, 15 to 18 ins | Ilex Cornuta Burfordi 15.00 20.00 Ilex Cornuta Burfordi 15.00 20.00 Ilex Cornuta Femina 15.00 20.00 Ilex Cornuta Femina 15.00 20.00 Ilex Crenata Rotundifolia 15.00 17.50 Ligustrum Japonicum, 5.00 Magnolia Soulangeana 25.00 25.00 Magnolia Soulangeana 25.00 25.00 Magnolia Soulangeana 25.00 25.00 Magnolia Soulangeana 25.00 25.00 Magnolia Soulangeana 25.00 20.00 Spiraca Reevesiana, double white, field-grown 15.00 20.00 STEPHENS NURSERIES Semmes, Ala. ATTENTION LANDSCAPE MEN AND DEALERS! Have you been looking for large, five-year-old, jumbo-size apple trees in McIntosh. Turley, Anoka, Grimes Golden, Gano; crab apple trees in Lodi and Coronaria? Each per 10 |
| American Red Pine, 1-yr. S | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. 1-yr. P | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SOUTHWEST FLORETUM Fall River, Kan. FINEST MICHIGAN-GROWN, FLOWERST MICHIGAN-GROWN, FLOWERST MICHIGAN-GROWN, FLOWERST MICHIGAN-GROWN, FLOWERST MICHIGAN-GROWN, Saccha Scotch Arnold 1-yr. 2 to 3 ft. 50-ch Atrosanguinea, 1-yr. 2 to 3 ft. 1-00 C-yr. 4 to 8 ft. 1.50 Cornus Spaethi, 12 to 18 ins. T. 50 Cornus Spaethi, 12 to 18 ins. T. 50 Cornus Elegantissima, 1-yr. liners 20 Cotoneaster, spreading 2 to 3 ft. 1-00 Floribunda Atropurpurea, 2-yr. 2 to 3 ft. 60 2-yr. 3 to 3½ ft. 75 Hippophae Rhamnoides, gray-blue leaves, orange berries, 1-yr. sdigs, 6 to 10 ins, 08 Lonicera Fragrantissima, 1-yr. liners 07 Paul's Scarlet Hawthorn, 4 to 5 ft., whips Scarlet Hawthorn, 4 to 5 ft., whips Scarlet Hawthorn, 4 to 5 ft., whips Microphylia, 1-yr. grafts 80 Syringa Microphylia, 1-yr. grafts 80 | Deutzia Gracilis, 15 to 18 ins | 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 1 10.00 20.00 25.0 |
| American Red Pine, 1-yr. S | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SOUTHWEST FLORETUM Fall River, Kan. FINEST MICHIGAN-GROWN, FLOWERING CRAB APPLES Arnold 1-yr., 2 to 3 ft. 50,05 Atrosanguinea, 1-yr., 2 to 3 ft. 75 Baccata Columnaris (135-42-A), NEW, white flowers, 1-yr., 2 to 3 ft. 1.00 2-yr., 4 to 6 ft. 1.50 Cornus Spaethi, 12 to 18 ins. T. 5.00 Cornus Spaethi, 12 to 18 ins. T. 5.00 Cornus Elegantissima, 1-yr. liners 2.00 Cotoneaster, spreading 2 to 3 ft. 1.00 Floribunda Atropurpurea, 2-yr., 2 to 3 ft. 50 2-yr., 3 to 3½ ft. 75 Hippophae Rhamnoides, gray-blue leaves, orange berries, 1-yr. sdigs. 6 to 10 ins. 08 Lonicera Fragrantissima, 1-yr. liners 0.7 Paul's Scarlet Hawthorn, 4 to 5 ft. whips 1.00 Russian Olive, liners, 18 to 24 ins. 98 Syringa Swegiflexa, 1-yr. grafts 80 Syringa Swegiflexa, 1-yr. grafts 80 Syringa Prestoniae, Red Wine, 1-yr. grafts 1.00 Syringa Prestoniae, Royalty, 1-yr. grafts 1.00 Syringa Prestoniae, Royalty, 1-yr. grafts 1.00 Syringa Belata Hybrida Pocohontas, 1-yr. grafts 1.00 | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |
| American Red Pine, 1-yr. S | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SCUTHWEST FLORETUM Arthouse S. 5.05 Arthouse Scuthwest Floretum Frairie Scu | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE RIVER, Kan. FINEST MICHIGAN-GROWN. FLOWERING CRAB APPLES Arnold 1-yr. 2 to 3 ft. 5.07 Atrosanguinea, 1-yr. 2 to 3 ft. 1.00 2-yr. 4 to 6 ft. 1.50 Cornus Spacthi, 12 to 18 ins. T. 5.00 Cornus Spacthi, 12 to 18 ins. T. 5.00 Cornus Elegantissima, 1-yr. liners 2.00 Cotoneaster, spreading 2 to 3 ft. 1.00 2-yr. 3 to 3 ft. 1.00 3-yr. 3 to 3 ft. 3 ft. 3 ft. 1.00 3-yr. 3 to 3 ft. | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SCOUTHWEST FLORETUM FRAIRIE SCOUTHWEST FLORETUM FRAIRIE SCOUTHWEST FLORETUM FRAIRIE SCOTCH S. 5.07 Atrosanguinea, 1-yr., 2 to 3 ft. 7.5 Atrosanguinea, 1-yr., 2 to 3 ft. 7.5 Raccata Columnaris (135-42-A), NEW, white flowers, 1-yr., 2 to 3 ft. 1.00 2-yr., 4 to 6 ft. 15 lns., T. 5.00 Cornus Spacthi, 12 to 18 lns., T. 5.00 Cornus Spacthi, 12 to 18 lns., T. 5.00 Cornus Elegantissima, 1-yr. liners 2.00 Cotoneaster, spreading 2 to 3 ft. 1.00 Floribunda Atropurpurea, 2-yr., 2 to 3 ft. 6.00 2-yr., 3 to 3½ ft. 75 Hippophae Rhamnoides, gray-blue Reass and Sparings Berries, 1-yr. slores 9.08 Lonicera Fragrantissima, 1-yr. liners 9.07 Paul's Scarlet Hawthorn, 4 to 5 ft. whips 1.00 Russian Olive, liners, 18 to 24 lns. 9.08 Syringa Microphylla, 1-yr. grafts 8.00 Syringa Microphylla, 1-yr. grafts 8.00 Syringa Prestoniae, Red Wine, 1-yr. grafts 1.00 Syringa Prestoniae, Royalty, 1-yr. grafts 1.00 Syringa Belata Hybrida Pocohontas, 1-yr. grafts 1.00 Syringa Prestoniae, Royalty, 1-yr. grafts 1.00 Syrin | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 1 1 1 1 1 1 1 1 1 |
| American Red Pine, 1-yr. S. 5.00 Riga Scotch Pine, 1-yr. S. 5.00 FRAIRIE SCUTHWEST FLORETUM FAIR River, Kan. FINEST MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. FLOWERS MICHIGAN-GROWN. White flowers, 1-yr. 2 to 3 ft. 7.5 Cornus Spaethi, 12 to 13 ft. 7.5 Cornus Spaethi, 12 to 18 ins. T. 5.00 Cornus Spaethi, 12 to 18 ins. T. 5.00 Cornus Elegantissima, 1-yr. liners 2.00 Cotoneaster, spreading 2 to 3 ft. 1.00 Floribunda Atropurpurea, 2-yr., 2 to 3 ft. 6.0 2-yr., 3 to 3½ ft. 75 Hippophae Rhamnoides, gray-blue leaves, orange berries, 1-yr. silgs. 60 2-yr., 3 to 3½ ft. 75 Hippophae Rhamnoides, gray-blue leaves, orange berries, 1-yr. liners 9.07 Paul's Scarlet Hawthorn, 4 to 5 ft., whips 1.00 Russian Olive, liners, 18 to 24 ins. 80 Syringa Microphylla, 1-yr. grafts 80 Syringa Swegiflexa, 1-yr. grafts 80 Syringa Prestoniae, Red Wine, 1-yr. grafts 1.00 Syringa Prestoniae, Royalty, 1-yr. grafts 1.00 Syringa Presto | Deutzia Gracilis, 15 to 18 ins | Itex Cornuta Burfordi 15.00 20.00 |

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Buddleia, Charming, 2-1

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Cornus Amonum, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Cydonia Japonica Rubra, 15 to 18 ins., 18 to 24 ins.

24 ins. 2 to 3 ft.

Forsythia Suspensa, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

Hydrangea P. G., 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

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|------|---|--------|
| | SURPLUS SHRUBS | |
| | | er 100 |
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| | 3 to 31/2 ft | 65.00 |
| | Kolkwitzia Amabilis 21/2 to 3 ft | 60.00 |
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| | 12 to 15 ins., br | 120.00 |
| | 15 to 18 ins., br | 140.00 |
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| 200 | Philadelphus Virginalis 2 to 3 ft | 45.00 |
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| 18 to 24 ins | \$5.00 | \$45,00 |
| 2 to 3 ft | . 6.00 | 55.00 |
| 3 to 4 ft | . 6.50 | 60.00 |
| 4 to 5 ft | | 80.00 |
| LILAC, ROTHOMAGENSIS. | | |
| 2 to 3 ft | . 5.00 | 45.00 |
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| 4 to 5 ft | | **** |
| LILAC, FRENCH, own-root, | | |
| (mixed varieties only), | | |
| 18 to 24 ins | 5.50 | 50.00 |
| 2 to 3 ft | | 65.00 |
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| Marshalltown, I | | 26.2 |

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This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum carlesi seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time. We are sold out of the 8 to 12-in. grade by now but still have some nice, strong seedlings with good roots in:

Per 1000 Per 1000

| Turner Road Newport, | , R. | I |
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| C. HOOGENDOORN | - | _ |
| 4 to 6 ins 15.00 | 125 | .00 |
| 6 to 8 ins | \$175 | .04 |
| Strong, 2-yr., S., | | |
| Per 100 P | er 10 | 000 |

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| Waubeka | | | lonia, Wis |
| | | MAPLE Seedlings | |
| | | | Per 10 |
| ft., 1-in. ft., % to No ship | cal | liveries. KOOLEN andscape Serve Ave., S.E. pids, Mich. | 25.00 |
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|---|-----|-----|-----|---|---|----|----|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|-----|-----|------|------|----|
| | | | | | | | | | | | | | | | | | | | | | | | Per | 100 | Per | 100 | ne |
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| B | to | 4 | £t. | | | | | | | | | | | | | | | | | | | | 45. | 00 | - 1 | 75.0 | 10 |
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PRUNUS MARITIMA (Beach Plum)

CALIFORNIA PRIVET
1-yr., 10 to 18 ins., well-rooted,
\$30.00 per 1000, bare-root.
THE HOMESTEAD NURSERY
Pemberton, N. J.

VEGETABLE PLANTS

| | E PRICE LIST— | -1954 |
|------------------|-------------------|----------|
| Plant Variety | Date Ready | Per 1000 |
| Cabbage | Now | \$2.00 |
| Collard | Now | 2.00 |
| Onion | Now | 1.25 |
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| Hybrid Tomato | April 15 | 5,80 |
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| All above pr | rices F.O.B. Alba | iny. |
| Leading variet | les. Write for ca | talog. |
| Large, fresh pla | ints. Prompt shi | pment. |
| 44.1 | He or wife | |

PIEDMONT PLANT CO.
Box 867-PP Albany, Ga.

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Victoria divisions, 1½ to 2 ins., 15 lbs. per 100. A very good red. We have grown this strain for the market for 40 years. Per 50, \$6.00: 100, \$10.00: 1000, \$90.00. ROUDEBUSH GARDENS Rt. 3, Box 397 Dayton 4, O.

CABBAGE, 2000 for \$2.95.
TOMATO, 1000 for \$2.65.
ONION, 6000 for \$4.25.
PEPPER, 1000 for \$2.95.
SWEET POTATO, 1000 for \$3.95.
SWIET POTATO, 1000 for \$3.95.
Write for our complete list.
W. G. FARRIER PLANT CO.
Box 555

VEGETABLE ROOTS

ASPARAGUS — Washington variety, heavy, 2-yr. roots, \$16.00 per 1000; 1-yr., \$10.00 per 1000. Immediate shipment. Inquire for quan-tity prices.

C. D. WRIGHT Hamburg, Ia.

VINES

HONEYSUCKLES
Lonicera Halliana Japonica, extra-heavy
No. 1, 3 and 4-yr., 18 to 24-in, field plants, 3
to 4 leads, \$40.00 per 1000; lighter grade,
\$30.00 per 1000; sample 100, \$4.00. Experienced labor for grading and packing
quantity orders. Immediate shipment,
ROBINSON NURSERY CO.
Greenville, Ga.

MISCELLANEOUS

| QUALITY LINERS | |
|------------------------------------|-----|
| Eac | h |
| Andromeda, Pieris, 4 to 6 ins \$0. | 16 |
| | 25 |
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| | 15 |
| | 10 |
| | 0.6 |
| Cash with order, please. | |
| FOUR STAR NURSERY | |
| Route 3, Box 3529 Edmonds, Was | 1. |

MISCELLANEOUS—Continued

Lily of the Valley Pips, \$1.25 per 100, \$10.00 per 1000.
Oriental Bittersweet, Sweet Scented Shrub, Nine Barks, Red Snowberry, Rose Acacia, Hibiscus, Bamboo, white or pink, \$5.00 per 100, 25 same rate.
Divisions of white Marguerite Daisies; Confederate violets, white and yellow violets; pink, white, red and Orchid Creeping Phloxes; Pink Verbenas, Penstemons, Blue Veronicas, \$1.50 per 100. Liatris liners, \$2.00 per 100. C. HUNTS NURSERY
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WANTED—large trees by Detroit contractor.
Deciduous trees, 3 to 6 ins, as well as Scotch
Pines, 5 to 6 ft., 7 to 8 ft. and 15 ft. Also,
Douglas Fir and Austrian Pine.
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WANTED—1600 Early Golden Plum Trees, 2-yr. and 1-yr. Also 300 Stanley Prune, 2-yr. and Peaches: 4000 Elberta, 3000 Goldray, 3000 Golden Jubilee, 700 Red Haven and 300 Vesper. All No. 1 9/16-in. cal. and up. Quote best price, F.O.B. your nurseries, to be picked up.

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more.

The above sizes are inside. Bottoms and sides are %-in, and ends are %-in, thick. All material surfaced on one side. All shipments by trucks unless otherwise ordered. Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus ½ cent per end plece for the first 1000 ends, ¼ cent per end thereafter.

Shipped knocked-down in bundles of 25. F.O.B. Cook, Minn. Attach check. Order by number.

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| H. C. HILL & SONS, COOK, MINN. | |
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| Made from a good grade of southern Y | |
| low Pine dipped in Rot Not wood preserv | er |
| for longer life. | |
| Standard specifications, inside measurement | 8. |
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WEEDER GOSLINGS Save hand labor costs in weeding nursery plantings. Goslings eat grass and many weeds but do not harm most plants and shrubs. Thousands in use. Free illustrated

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MARSH HAY FOR MULCHING Clean; no weeds. Truckloads or carloads. KOPFF HAY CO. Beaver Dam, Wis.

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| 4x% ins. (cartons 1000 each) 2.90 | 3.46 |
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| Price per carton. | |
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| The original label marker. 1 doz. pencils per box, \$1.75. | 7-in. |
| Our labels are perfectly white and sn | nooth |
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WILSON'S SLUG-O, 1 lb., \$1.50; 4 lbs., \$1.95. WILSON'S SUPERCIDE, pint. \$1.75; gal. WILSON'S SUPERCIDE, pint, \$1.75; gal., \$9.75.
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ATLAS FISH EMULSION, 4 oz., 25c; pint, \$1.00; qt., \$1.90; gal., \$6.25.
With each 100 pot hangers purchased (any size), we will include 100 orchid tubes with caps at no charge.
24-in. double hangers, \$22.50 per 100; 18-in. double, \$21.00 per 100; 18-in. single, \$15.50 per 100.
OSMUNDA, \$11.50 per bale. F.O.B. Houston; \$9.00 F.O.B. Florida.
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Soil-testing and consultation services to help you grow better crops. Rapid, accurate tests for pH, organic matter, nitrogen, phosphorus, potassium, calcium and four minor elements cost only \$5.00 per sample, or write for costs on a soil-testing consultation program.

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Clean, long-fibered, standard bales; freight, express, or delivered by our trucks, Please price us before you buy. Satisfaction guaranteed.
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 $10.00 \\ 11.00$ 5 ft. stakes

Prompt shipment from warehouse stock.

All prices F.O.B. Portland, Ore.

Write for special prices on bulk stakes,

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CYPRESS PLANT STAKES
50 Pleces to Bundle.
1x1-in.—3 ft., pointed.....\$3,00 per bundle
1x1-in.—5 ft., pointed.....\$50 per bundle
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1x1-in.—7 ft., pointed.....\$.00 per bundle
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1x1-in.—9 ft., pointed.....\$.00 per bundle
1x1-in.—9 ft., point

WE SHIP SAME DAY! YOHO & HOOKER Youngstown, O.

| | HEAVY BAMBOO STAKES | | | | | | | | | | | | | | | | | |
|------|---------------------|----|----|---|---|---|----|----|---|---|--------|------|-----|-------|-----|-----|-----|------|
| Per | 100 | | | | | | | 34 | | t | o % in | . % | to | % | in. | % | to | 1 in |
| 4 | ft. | | | | | | | | | | \$2.88 | | \$3 | .44 | | - | 84. | .24 |
| | | | | | | | | | | | 3.60 | | 4 | .30 | | | 6. | .20 |
| | | | | | | | | | | | 4.32 | | 5 | .16 | | | 6. | .36 |
| | | | | | | | | | | | 5.04 | | 6 | .02 | | | 7. | .42 |
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STAKES, GALVANIZED HARD STEEL. Galvanized Wire Prices and samples sent upon request. SCHUPP SUPPLY CO., Wilmette, Ill.

MISCELLANEOUS

MARSH HAY AND POSTS

Marsh Hay and 2-in., 3-in., 4-in., 6-in., and 6-in., Norway and White Pine Posts for Rt. 6, Box 42 Waukesha, Wis.

Surplus Stock can be easily and quickly turned into Cash by listing it in the
American Nurseryman Classified Ads.

PLANT ECOLOGY

[Continued from page 14]

ings in the wet areas, near the seashore, on steep shaded slopes, beneath the shade of an oak or pine or wherever the situation corresponds with a similar one in nature.

Along our streams and rivers we find new plants and a new association. There is a varying supply of water in the soil and consequently the groupings vary in their components.

Over the flatlands develops a mixture of balsam poplar, ash, hawthorn, sweet gum, silver maple, box elder and basswood. Walnuts, too, sometimes grow well here. Many shrubs creep in, whether the land is flat or rolling, as long as the water table is high near the moving stream. Sweet pepper bush, red osier dogwood, arrowwood, common elderberry, spicebush (this plant deserves much greater use), nannyberry and shadbush appear as shrubs or shrubby trees.

Swamp white oak and pin oak may also grow along the stream, whether it is a rural or urban waterway. The red or swamp maple is not a stranger to a rambling stream, either.

The conditions here are not like those of the swamp since the moving water allows more oxygen in the soil and the water table is not so high. The root systems under such conditions are not so pancaky, and this makes for easier transplanting. Growth is usually vigorous, and plants gain good size in a short period of time. Even with this factor, these plants usually transplant readily, whether they are of good size or small, and accept the normal growing conditions of an average home landscape.

Many persons feel that no water area is complete without the addition of a willow, Many times nature reacts the same way and adds black willow (Salix nigra) or shining willow (Salix lucida).

Additional Shrubs

Additional shrubs found along the stream that are worthy of recommendation are common winterberry (Ilex verticillata), ninebark, false indigo, witch hazel and steeplebush (Spiraea tomentosa).

The herbaceous plants and ferns comprise too extensive a list to include here, but a few desirables are spring beauty, crane's-bill (Geranium maculatum), bluets (Houstonia caerulea), large blue flag (Iris versicolor), cardinal flower, bloodroot, wake-robins (Trillium cernuum and T. grandiflorum), sensitive fern,



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The pond association provides conditions different from those previously mentioned, in that quiet water and full sunlight dominate. The water has varying depths, and over a period of many years this pond may gradually fill in and lose its identity as a pond.

The trees that are found here are pin oak, red or swamp maple, sour gum (known also as black gum, tupelo and pepperidge) and black willow.

The shrubs are somewhat similar to those of the streamside association and include winterberry; swamp aza-(Azalea viscosa), which is worthy of greater use because of its late (mid-June to late June) fra-grant flower; spicebush; sweet pepper bush; buttonbush; shrubby cinquefoil; hoary, shining, silky and autumn willow; highbush blueberry. and arrowwood.

Ferns and Aquatic Plants

The herbaceous list not only includes land plants but also aquatics and ferns. About 125 species may be found here. There are pondweeds, pond lily, arrow arum, pickerelweed, sweet-scented water lily, marsh marigold, marsh bellflower, joe-pye weed, closed and fringed gentian, slender and larger blue flag, cardinal flower, duckweed, various crawfoots and buttercups (both ranunculus), cattails and, of course, skunk cabbage.

The flags grow in shallow water as do the burreeds (sparganium), and the latter have to be restrained, or they may take over. In deeper water the ornamental arrowheads, along with arrow arum, and pickerelweed, yellow pond lily, water plantain and water shields thrive. The sweet-scented water lily (Castalia odorata), whose flowers lie on the water's surface, may become prolific enough to cover the entire pond.

If one were recreating conditions such as nature provides in and near the ponds, it would be essential to know the plants which grow at the various depths, and they vary considerably in some cases. You may consider it doubtful that you will ever be incorporating such plants in a landscape, but someday, at the request of a wishful client, you may be widening a small stream in order to make a pond. What could create a more interesting landscape picture when you have proper conditions?

In contrast to the wet areas briefly described, we have the steep slope of a hemlock ravine. But even here there is often spring water trickling over the soil or near the roots of the plants.

Many trees are found in this hemlock ravine association, but the eastern hemlock is the most prominent. The deciduous trees are striped, sugar and mountain maple, although the first and last of these are not common in the warmer areas of this northeastern section; black willow (near the water, if there is any); white ash; beech; tulip tree; basswood, and others.

The shrubs included are American or Canadian yew (Taxus canadensis); mountain laurel; downy shadblow; hobblebush (Viburnum alnifolium), which is difficult to transplant but an attractive shrub in flower or fruit; Rhododendron maximum, and witch hazel.

The list of herbaceous plants is more limited but includes those that do best in the shade. Wild columbine, jack-in-the-pulpit, bunchberry dogwood (Cornus canadensis), Dutchmen's-breeches, partridgeberry, varioups wake-robins (trilliums) and stemless lady's-slipper (Cypripedium acaule) are just a few of the possibilities.

The ferns are numerous, probably more so than in any other association. It would not be right to describe such an association without including some of the ferns. In the shady spots would be found the little spleenwort (Asplenium ruta-muraria), the beech fern (Phegopteris hexagonoptera), oak fern (Phegopteris dryopteris) and the tufted spleenwort (Asplenium trichomanes). The Christmas fern is frequently found in the association—in the shade, in and near the rocks or where the water's drip may reach it.

Follow Nature in Placement

Placing the plants in the same positions and proportions as they are found in nature makes the true spirit of the woodland available to those who would enjoy and study it.

In some of the glaciated areas of Long Island, we find sand-rimmed kettle holes that have some of the characteristics of the pond association mentioned earlier in this article. There are also other associations that are more localized and not typical of the entire northeastern section. Included are the pine barrens, the bog and the serpentine rock area, but it is not easy to recreate these, although it is possible.

There are always many things to learn—from our competitors, day laborers, office girls or mother nature.



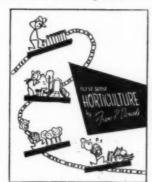
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PLANTS FOR CALIFORNIA

[Continued from page 15]

tropical, has doubtless been responsible for the introduction of many of this group. They are good shrubs and container plants for growing in patios. They vary in hardiness, and some will attain the size of small trees. They belong to such genera as oreopanax, pseudopanax, nothopanax, gilibertia, trevesia and pterotropia.

The new variegated Fatshedera lizei is a welcome addition. The green-leaved form has been used in many ways in landscape planting.

Myrciaria edulis has been sold as a fruit tree, but its refined attractive foliage suggests that it should also be tried as an ornamental. The fruit is sweet and resembles a cherry

A new form of the loquat, Eriobotrya deflexa, is available, and it appears to have unusually handsome foliage, perhaps superior in ornamental value to that of the ordinary loquat. Several other plants with unusual foliage, which seem to be promising, are a form of castor bean with dark red foliage, a white variagated banana and a newly introduced form, Aucuba japonica

A new mutation of the familiar shrimp plant, Beloperone guttata. would seem to have unusual possibilities since the bracts are a pure chartreuse green. Another novel form of an old familiar plant is the new patented hybrid lantana, Goldrush, which is the first trailing form in a clear yellow. It is a good ground cover and hanging basket plant.

A refined and attractive low plant is the new hebe variety, Autumn Glory. Its foliage is dense. The flower spikes are small but are a good clear blue and appear in the fall.

The great revival of interest in camellias has branched out to the less common species and hybrid groups. The number of varieties of Camellia sasanqua stocked by the nurseries continues to increase. The number of vegetative types of plants available in this species is diverse and ranges from short dwarf sorts to sprawling forms which are almost vines.

The so-called Williamsi hybrids produced in recent years in Cornwall. England, have great landscape value. These are crosses of Camellia japonica and Camellia saluenensis.

Some of the recently introduced new varieties of Camellia reticulata are outstanding flowers but are still expensive for the average person. They are not suited to the colder areas.

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FLOWER SHOWS

[Continued from page 9]

arborvitae hedge. The flower beds were edged with white alyssums. A stone path, on the right, led to a small shelter. A Scotch pine tree was on the left of the shelter, and a group of three pyramidal arborvitaes was on the right.

Spring Annuals

A raised terrace of flagstones with a semicircular wooden bench, which overlooked beds of annuals, was the gold medal winning design of the W. Atlee Burpee Co., Doylestown, Pa. A large pine tree on the right of the terrace had branches which swept down low over the area. The flower bed at the base of the terrace was planted in purple, pink and white varieties of the firm's early asters. Raised flower beds on the left held three varieties of large marigolds which were faced by edgings of yellow dwarf varieties and ageratums.

Handleman's garden center, White Plains, N. Y., was given a gold medal for a semiformal patio garden which overlooked a small planting of pink azaleas, grouped around a flowering dogwood tree. A large pine tree, in a raised fieldstone planter, was on the right of the entrance. A planting of white azaleas and alyssums in a semiformal bed was also on the right facing the lawn area.

A formal terrace garden, with a weathered brick path which led to a raised semicircular red brick terrace, won a gold medal for the Panfield Corporation Nurseries, Huntington, L. I. A planting of tulips, backed by a yew hedge, faced the terrace in the foreground. A clump of white birch trees was at each end of the terrace, which was backed by a planting of dogwood, azaleas and narrow-leaved evergreens.

A special trophy was awarded to the exhibit prepared by the Patients' Garden Club of the Northport Veterans' hospital, Northport, L. I. This group of men designed a small garden which had a figure of St. Fiacre, patron saint of gardeners, as a focal point. The statue was at the end of a small pebbled path, which was flanked on each side by yellow tulips and deep pink azaleas.

Noncompetitive Exhibits

A semiformal garden in the noncompetitive class, exhibited by the International flower show and designed by Don Roehrs, featured a gravel terrace which overlooked a large lawn area, accented with a bed of multicolored azaleas. A clump of large white birch trees overlooked



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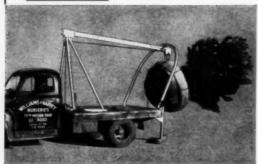
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the terrace; a large hemlock tree accented the first curve of the gravel path.

The National Association of Gardeners presented a small, informal terrace planting overlooking a pool. A path of flagstones led to and from the terrace area and was bordered by plantings of daffodils and primroses, backed by rhododendrons and forsythias.

Cornell University, Ithaca, N. Y., had an educational exhibit which illustrated the techniques necessary to preserve the life of cut flowers. Following this theme a pamphlet, "More Hours for Your Flowers," was distributed free of charge. The exterior of the exhibit, which was designed to simulate a cross section of a house, was framed in a foundation planting of broad and narrowleaved evergreens. In addition, varied floral arrangements for small homes were exhibited in model

Educational exhibits for the suburban gardener were staged by the New York Botanical Garden and the Brooklyn Botanic Garden. The exhibit of the former was a corner of a fuchsia garden which featured a small terrace, house, stream and rustic bridge; the latter exhibit was a modern terrace designed for the small homeowner or city penthouse dweller.

Other Awards

Lager & Hurrel, Summit, N. J., were awarded a first prize for an exhibit of orchid plants covering 125 square feet. Second prize in the same competition was awarded to George E. Baldwin, Mamaroneck, N. Y. The firm of Lager & Hurrel also was awarded three firsts and two seconds in competition for orchid plants in various categories.

Bobbink & Atkins, East Rutherford, N. J., were awarded a first for three evergreen azalea plants in one variety and a first for a specimen azalea not less than four feet in height.

Louis Dupuy, Whitestone, L. I., won first prize in the competition for the best exhibit of caladiums; Julius Rochrs Co. placed second.

For a grouping of evergreen azaleas, covering 200 square feet, Bobbink & Atkins were given a first prize. In a similar competition for varieties of smaller flowers, Dauernheim, Inc., Wantagh, L. I., was the first prize winner.

In a sweet pea competition, covering 75 square feet, Vaughan's Seed Co. was given first prize, and the W. Atlee Burpee Co., second prize.

At a judges' dinner in the Hotel



Lexington March 7, William R. Coe, Jr., chairman of the board of directors of the International flower show, suggested that in future shows the exhibitors should cater more to the small homeowner, with material suitable for planting the suburban home grounds. George White, a member of the board and head of the Bobbink & Atkins firm, lauded the cooperation of the commercial exhibitors at the show and thanked those who were responsible for the show's success at the new location.

California International

California international flower show again offered a thrilling spectacle to the thousands of flower and garden lovers who flocked to beautiful Hollywood park, Inglewood Calif. during the 9-day show, March 13 to 21. Improved techniques in staging the large garden displays and more artistry in arranging the cut flower and retail florist's exhibits contributed to the outstanding success of the 1954 show, according to William A. Rodman, general manager for the fifth annual event. The show was cosponsored by Southern California Horticultural Institute, Inc., and Southern California Floral Association. The paid attendance was more than 175,000.

Large formal gardens, skillfully designed with painted backdrops; spacious walks, fountains, singing birds, and lush foliage, shrubbery, trees and other attractive accessories provided beautiful settings for displays of specimen azaleas, orchids, and decorative foliage plants and flowers, seldom seen by the public except at shows of this kind. Landscape architects displayed a wide range of suggestions for outdoor living, from the most costly and ultramodern to simple practical ideas for the average homeowner.

Large garden displays, 34 in all, were the principal attraction on the main floor, where the crowds stood in line to walk slowly past the beautiful exhibits.

International exhibits, larger and better designed this year than at past shows; educational exhibits, garden clubs and other amateur exhibits and a commercial section for sale of garden supplies all had their share in the four acres of display space. A hobby painting exhibit by famous persons, programs in the auditorium, a television salon and many other features contributed to the entertainment of the crowds.

Unprecedented in flower show history was the award of a gold medal by the New York International flo-

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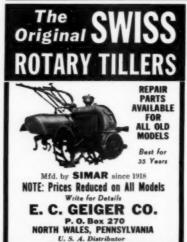
wer show committee to the Germain's, Inc., exhibit at the California show. The New York medal, sent to California to be awarded to the outstanding exhibit at the show, was presented to Manfred Meyberg, president of Germain's and general chairman of the California show, by the chairman of the New York board of jurors. In addition, the California show awarded two gold medals, a number of trophies and \$45,000 in cash prizes to nurseries, cut flower growers and retail florists.

An azalea garden about 4,500 square feet in size by Roy F. Wilcox & Co., Santa Barbara and Montebello, was awarded one of the two gold medals of the California show, for an outstanding nursery exhibit. Cedric's Flowers, in the retail display section, was awarded the other gold medal at the show. Masses of specimen azaleas, arranged according to color in a formal garden setting, were a breath-taking spectacle. Beautiful murals and skillful landscaping lent a 3-dimensional aspect and gave viewers the impression of looking far into the distance through a deep mall. Vast lawn areas, backed by stone balustrades and accented by trees and shrubs, complemented a broad circular terrace in the center, where an architectural feature of the exhibit was a magnificent fountain, specially designed and cast for this display.

Haddon Hall Re-Created

The illusion of strolling through the gardens of an English estate was offered at "Haddon Hall," the large, prize-winning exhibit of Germain's, Inc., Los Angeles and Van Nuys. The massive entrance gates of famous Haddon Hall were reproduced at each end of this 7,500 square foot display. The public walk led through delightful English gardens in bloom, against a background of sweeping evergreen arches, long balustrades and great murals showing a castle in









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Extremely large hybrid phalaenopsis orchids, about 400 plants in all, were exhibited from the Arthur Freed Malibu collection and won a special trophy for this M-G-M film producer. The plants, some measuring five inches across, were effectively displayed in a setting of large boulders, mossy banks and an informal garden corner. The large white blooms stood out in sharp relief against several brilliant orange-painted tubs.

A delightful and colorful garden scene by Paul J. Howard's California Flowerland was entitled, "Rip Van Twinkle's Dream Fantasia," showing a genial, sleeping gardener in a riot of flowers with pastel-tinted wheelbarrows, rakes and garden accessories in profusion. Twelve stylized pastel horse heads peered through stall windows, over each of which were displayed appropriate flowers for every month of the year.

Outdoor Living

Garden lanais, Oriental teahouses and modern California outdoor landscaping were featured in a number of exhibits by nurseries and landscape designers. Evans & Reeves Nurseries, Brentwood, had a large outstanding exhibit built around a lanai and two pools. Background and lighting simulated nighttime as an effective setting for this firm's display of rare tropical foliage plants and trees, accented here and there with bright orange clivias and flowering white fruit blossoms. R. W. Smith Co., Pasadena, had a formal garden and pool, with an outdoor lanai and stone statuary.

For the garden exhibit using roses to best advantage, the Fred Howard Memorial trophy was awarded to H. A. Conklin Wholesale Roses, West Covina, for an old-fashioned garden and cottage among flowering miniature roses. Decorative foliage plants, such as giant Philodendron pertusum, dieffenbachias and kentia palms, were featured in the garden exhibit of A. A. Schnierow Nurseries. Howard & Smith, Inc., Montebello, had a beautiful hillside garden featuring large Star Dust amaryllises planted in rich loam among trees and shrubs.

Rhododendrons in full bloom were a feature of the garden display of Frank's Nurseries & Flowers, West Los Angeles. Live birds were singing in a garden cage and the exhibit also had a garden house. The



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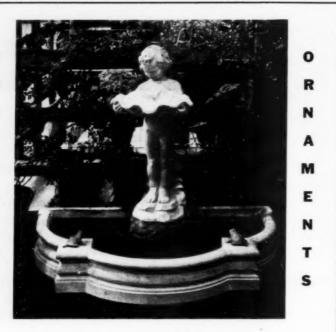
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Rosedale Nurseries had a large, beautifully designed garden, with banked azaleas and decorative foliages featured in one section and at another end, an Oriental teahouse with a glass wall through which decorative foliages could be glimpsed.

Twenty-four live parakeets in a glass-covered cage that extended the width of the display were a colorful background for the garden exhibit of Tomlinson's Select Nursery, Whittier. Tomlinson's Wilshire Nursery had an interesting jungle garden scene, with twisted tree trunks and barks from which grew cymbidium orchids and decorative foliage plants.

A swimming pool, with a girl lounging on the springboard, was a focal point in the garden display of Armstrong Nurseries, showing a typical California garden against a backdrop of ocean and beaches. Ultramodern barbecue and garden furniture drew attention in the large. well-landscaped garden of Henry C. Soto Corp., Los Angeles. Unusual cacti in bloom and strange desert plants were featured in the display of Leucadia Nursery, Encinitas.

Bedding Plants

Home gardeners were interested in two exhibits of bedding plants by Perry's Plants, Montebello. Green and decorative foliage plants were featured by Buena Park Greenhouses artistically displayed in a collection of large stoneware and ceramic pots from the Los Angeles county fair.

Ideas for commercial establishments and homeowners were offered in the large display of the Plant Rental Division of Superior Nursery

Co., Los Angeles.

Dreams of country life were recalled by the "Spring Valley Ranch" of Peter Rober Nursery, Whittier, which had delightful plantings along a dirt country road, winding along a hillside. Brilliant coral anthuriums were featured in an exhibit of Los Angeles Country Club. Pickbrook Nursery, Chatsworth, showed miniature Japanese trees.

Peter Mordigan Evergreen Nurseries, San Fernando, had an interesting garden corner. Descanso Distributors, Inc., Chino, had a small exhibit of camellia plants. Azaleas were featured in the large garden display of Mossholder Nursery set against a 3-dimensional painted background.

Executive committee members in charge of the show were Manfred Meyberg, of Germain's, Inc., general chairman; Ray W. Nottke, of Wright's Flower Shop, Inc., vicechairman; A. J. Gock, treasurer; Jack W. Evans, of Evans & Reeves



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Nurseries, assistant treasurer; Walter Swartz, of Southern California Floral Association, secretary, and Earle Humphries, of Aggeler & Musser Seed Co., publicity chairman.

New England Flower Show

Spring came to Boston, Mass., Sunday, March 14, with the opening of the 125th annual spring flower show in the Mechanics building. Long lines of persons, eager for a preview of spring, waited in snow and sleet to see "Gardens Old and New."

The show proved to be worth waiting for, and the consensus that it was the best flower show ever held in Boston was confirmed when the Massachusetts Horticultural Society was awarded the Garden Club of America's Bulkley medal, for its display of special merit. Attendance throughout the week was excellent.

Mr. and Mrs. John S. Ames, North Easton, famous for their azaleas, had an exhibit, complete with pool and terrace, that displayed the blooms against a background of tall cedars. The Ameses were awarded the Beatrix Farrand silver bowl for the best exhibit of azaleas in the show, the gold medal of the Horticultural Society of New York for the most beautiful exhibit, a gold medal and a first prize.

A54 CITY AND STATE

To the left of the entrance were shadow box arrangements of orchids. Mrs. William F. Baker, Wellesley, won first and second prizes for her original and striking boxes, and Mrs. William F. Hickey, Jr., Winchester, won third prize. A jungle garden of cymbidiums against ferns and palms, shown by Richard C. Payne, Chestnut Hill, showed the skillful touch of the artist and was awarded a silver medal and a first prize.

The famous acacia collection of Mr. and Mrs. Robert G. Stone, Marion, was tastefully arranged above a jungle floor of ferns, with a small stream flowing over tufa rock. A first prize, a gold medal and the gold medal certificate of the Pennsylvania Horticultural Society for the highest standard of culture were given to the Stones for their beautiful exhibit.

To the right of the acacia display was the garden of Alexander Heimlich, Woburn, who used broad ledges in a peaceful woodland setting featuring a waterfall tumbling over a ledge into a pool that reflected the flowers growing around it. A grassy path led into the woods, and the bright flowers added color to the



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scene. This garden was awarded the president's cup for the most meritorious exhibit in the show, a gold medal and a first prize.

The North Shore Horticultural Society's tropical garden, popular in 1829, when the society was founded, proved interesting. The Antoine Leuthy prize for the best display of flowering or foliage plants, a silver medal and a first prize were presented to this exhibit.

Old Garden Patterns

A series of small gardens with the theme, "Garden Patterns of Two Centuries," was staged by the women's exhibitions committee, under the guidance of Mrs. Stephen Wheatland. A gold medal and the Massachusetts Horticultural Society's 125th anniversary gold medal for the exhibit that best combined excellence of design, horticultural merit and educational value was awarded to this exhibit. Mrs. Irving C. Wright designed the over-all plan.

An informal garden, treated as an outdoor living room, was the contribution of the Old Colony Landscape Service, Weymouth. The exhibit portrayed a graceful driveway flanked by beds of tulips, leading to a stone terrace with a blooming dogwood tree. The exhibit received a silver medal.

Norumbega Nurseries, Weston, displayed an informal garden. Red cedar blocks paved the path, which rose through a rock wall to an upper terrace of bricks sprinkled with pine needles. Azaleas and rhododendrons against an evergreen background were most effective. A gold medal and a first prize were taken by this

The exhibit of the Gardeners' and Florists' Club of Boston was a formal garden of white tulips and hyacinths, with a large dogwood tree planted to the left. The club received a silver medal and a first prize for its entry.

Cherry Hill Nurseries, West Newbury, received first prize and a bronze medal for an informal garden of azaleas, mountain laurel and rhodo-

Boston, 125 Years Ago

In Grand hall was a series of four gardens depicting Boston 125 years ago. The exhibit of Harold D. Stevenson, Rockland, was one of the most effective and lifelike in the show and won him a gold medal and a first prize. The exhibit showed a view of Boston harbor from the dooryard of a captain's cottage. High above the tulips and hyacinths in the yard was a flagpole, with Old Glory



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In the center of Grand hall was a knot garden shown by Bartlett Gardens, Hamilton, done in Elizabethan style, with a boxwood hedge, herbs and colorful geraniums. This exhibit won a gold medal and a first prize.

The Garrison house, complete with carriage house and buggy, was reproduced by Breck's of Boston. An old-fashioned garden of perennials was shown. Breck's received a gold medal and a first prize.

Weston Nurseries, Hopkinton, presented an 1829 merchant's home on Beacon hill, with a formal garden of dogwood, wistaria, rhododendrons and perennials. In a wire enclosure to the left of the house was a live peacock. A gold medal and a first prize were awarded to this exhibit.

Cooperative Display

The exhibit on the stage in Grand hall was the cooperative work of three groups and won a gold medal and a first prize. The over-all design was by Kelsey-Highlands Nursery, East Boxford, with Seth Kelsey doing the designing. In the background was a replica of the first Horticultural Hall and seed store, reproduced from original pictures. At the right was an extremely colorful market place of 125 years ago, with big buckets of roses, lilacs, snapdragons and potted plants, executed by Fishelson Florist. To the left was a bandstand where twice daily a gaily uniformed German band performed, adding considerable atmosphere to the show. Over the roof of the bandstand trailed a wistaria vine and birch trees. Hemlocks and dogwoods flanked the scene, which was further enlivened by vivid geraniums. The entire area was covered with thousands of square feet of green grass. Exactly in the center of the stage was the seal of the Massachusetts Horticultural Society, with its mot-to, "Commun Bonum" executed by the city of Boston park department with sedums and other miniature

Brightwood Greenhouses, East Providence, R. I., featured Brownell sub-zero roses in a rose garden display, which won a first prize. Another first-prize group of foliage and flowering plants was that of the National Association of Gardeners, Boston branch. The exhibit depicted a woodland scene.

An informal June garden by the National Association of Gardeners, Cape Cod branch, showed a terrace shaded by a pine tree and banked



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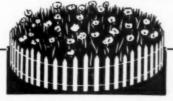
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with azaleas. The grassy paths leading to the terrace were bordered with perennials, yellow pansies, yellow and blue iris and delicate white delphinium. A gold medal and a first prize were awarded for this garden.

An exhibit of century-old Japanese dwarf trees by Arnold Arboretum, Harvard University, Jamaica Plain, set up under the direction of Dr. Donald Wyman, was perhaps the most fascinating exhibit of the show. It received a gold medal and a first prize. Included in the exhibit were a Higan cherry tree, 102 years old and only 21/2 feet high; a Bonsai Japanese larch, 142 years old and only 31/2 feet high, and Hinoki false cypress trees, gnarled and twisted, 167 years old. These were exhibited in a natural setting, with a bamboo pavilion.

An informal garden by the National Association of Gardeners, Newport, R. I., branch, with wood-land pool, yellow forsythias and spring flowers took a first prize as did a group of spring-flowering pot plants by Wellesley College botany department.

The garden in the center of the lower floor was an exhibit of cacti and succulents by F. I. Carter & Sons, Tewksbury. Thousands of rare, brilliant and odd-shaped plants were in this display, which won a gold medal and a first prize. A display of exquisite flowering miniature plants, including the world's smallest plant, Narcissus asturiensis, by John Thibodeau, Woburn, created much interest and won a silver medal. A display of magnificent pure white callas won a first prize for Alexander Irving Heimlich.

Staged by the Garden Club Federation of Massachusetts were flower arrangements depicting "Our New England Heritage," interpreting the theme of the 125th anniversary. A gold medal was awarded to the federation.

Silver medals were awarded to C. H. Lothrop, Lexington, for a display of double snapdragons; to the Massachusetts Orchid Society, for orchids; to the Greenlaws, Concord. for begonias; to G. Peabody Gardner, Brookline, for schizanthuses and cinerarias, and to Mrs. E. D. Brandegee, for clivias.

National Capital Show

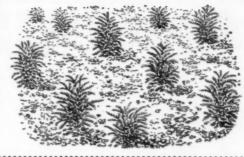
Mrs. Richard Nixon, wife of the vice-president of the United States, formally opened the fourth annual national capital garden and flower show, staged at the National Guard armory, Washington, D. C., Thursday, March 4. A huge crowd was on

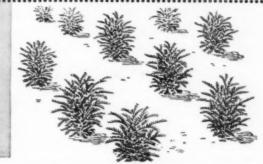


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hand to watch Mrs. Nixon cut the ribbon and lead a group on a grand tour of the magnificent show.

The National Guard armory, a sprawling 2-acre enclosure, presented a grandiose maze of brilliant blooms from all parts of the world in an architectural setting under the direction of Boris Timchenko.

On entering the show, the viewer was confronted with a huge fountain, jetting water to a height of 40 feet. Multicolored lights enhanced the fountain's beauty and emphasized its size, equal to huge trees nearby.

Alpine Garden

Opposite the main entrance and forming a background for the fountain was a huge rock garden, displayed by Alexander I. Heimlich, Woburn, Mass. Mr. Heimlich's dispay won for him a special blue ribbon award. Huge slabs of rock, reaching about 12 feet high and 60 feet long, formed the setting for miniature alpine plants and shrubs, azaleas and pine and spruce trees.

Many innovations were begun this year. One was a clinic on garden problems, with W. H. Youngman, garden editor for the Washington Evening Star, on hand to answer questions on garden problems. Another newcomer to the show was a

display of azaleas by the National Capital Botanical Garden. The Potomac Rose Society, also a newcomer to the show, and the Garden Club League conducted a booth for garden therapy.

Roses, Inc., in one of the larger displays, presented many of the old favorites as well as new introductions. Conard-Pyle Co., West Grove, Pa., had a display opposite the Roses, Inc., exhibit.

One of the top awards of the entire show went to Adolph Gude for his fine formal garden. Interest was high in the garden club section of the show. Some 20 organizations worked hard and long at setting up their gardens.

The orchid displays were exceptionally good. Among the professionals, Flowers, Inc., won a blue ribbon, and H. B. Smith and Blackistone, Inc., followed.

The University of Maryland, College Park, Md., displayed an educational exhibit, showing bulb culture. The United States Department of Agriculture's plant introduction center at Glenn Dale, Md., presented an unusual display consisting of South African plants brought to this country for use in research on cortisone. Other plants in this section

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were described as stones that bloom, being succulents that look like stones until they bring forth their blooms.

A. Gude Sons took first place for the best large garden. The northern Virginia florists' exhibit was judged the best small garden, and Summitt Halls, Gaithersburg, had the best lawn exhibit.

This year's show reached a higher popularity than any of its four predecessors. In fact, the crowd on Sunday, March 7, surpassed all existing official records for any paid event at the armory. B. G. McGinniss was chairman of the show, and the show manager was Al Harloff.

Long Island Flower Show

To the thousands of persons who attended the annual garden show of the Long Island Nurserymen's Association March 18 to 21, the theme, "And Suddenly It's Spring," assumed reality. The show was held again in the exhibition hall of Hicks Nur-series, Westbury, N. Y. The eighth show sponsored by the group, the event, which was small and ordinary at its inception, has become a superb exhibition in which Long Island professionals justifiably take pride pride which was reflected in the show's program leaflet. An introduction to the leaflet written by David Bulk, president of the nurserymen's group, stated: "Our spring garden show is a yearly occurrence dedicated to familiarizing our fellow Long Islanders with the beauty and worth that is our life work."

The show was officially opened on March 18 by A. Holly Patterson, Nassau county executive, in a ribboncutting ceremony. During the first hour of the show, pert models made attractive subjects for picture taking, along with the flowers. One nurseryman observed that it was likely that the watering cans the models held were not even noticed by Long Island's nurserymen.

Twelve garden displays, designed and constructed by Long Island nurseries, the Nassau county park department and the North Shore Horticultural Society contained numerous ideas of use to the average homeowner. Nothing in the gardens was on such a large scale that it could not be made a part of an average-size backyard.

The aquatic garden of S. Scherer & Sons, Northport, was so well done that it would probably have received a top award in any garden show. Water is an incomparable addition to garden design. When tranquil water is present, as in a quiet pool, then aquatic plants simply improve

what is already interesting. Such tropical water lilies as Panama-Pacific and Zanzibariensis rosea added beauty to the Scherer aquatic garden as did variegated flag, parrot's-feather, water lettuce, water fern and water poppy. Plants were not the only living things present—fish swam in the pool, adding another element of interest.

Donald F. Pollitt, Huntington, also included a pool and aquatic plants in his well-designed garden. A plant not ordinarily found in home gardens was used as a ground cover in his exhibit. It was striped pipsissewa (Chimaphila maculata), which is often a part of an untouched woodland. Another ground cover that is gaining popularity is carpet bugle (Ajuga reptans), and after seeing its effective use in Mr. Pollitt's garden many Long Islanders will probably find a place for it in their yards. A tree form of mountain laurel canopied smaller plants and sheltered an unusual-shaped pool.

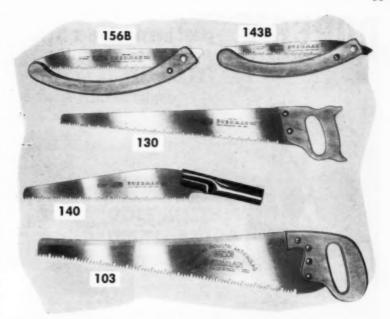
The patio garden of Anton Hren Nurseries, Huntington Station, was characterized by the effective use of bright red geraniums and convex-leaved holly. In this garden was a fine specimen of Japanese black pine (Pinus thunbergi), of which many Long Island nurserymen wished they had a few blocks to satisfy the increasing demands of owners of beach homes.

Some extremely fine specimens of warty barberry (Berberis verruculosa) were displayed by Herman Eberhard, Franklin Square. Dwarf sarcococca, also in his display, provoked questions from those who had an eye for something out-of-the-ordinary.

Unusual Plants Spark Exhibits

A plant which is seldom forced into flower for indoor use, the Carolina silverbell (Halesia carolina) added attractiveness to the garden of Bulk's Nurseries, Babylon. The lesser known leatherleaf mahonia (Mahonia bealei) added to the display of Hicks Nurseries. A variegated strawberry, a plant with which few are familiar, gave an unusual touch to the rock garden of John Groeneveld, Roslyn Heights. Japanese skimmia, willow leaf cotoneaster, variegated English holly and perny holly (Ilex pernyi) also were new to most of the visitors.

Rare plants, or at least those unfamiliar to most homeowners, were purposely placed in many of the gardens to stimulate questions from the public, and they did just that. Persons often have the conviction that



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A fireplace in the garden of Lewis & Valentine Nurseries, Greenvale, made one think of grilled hamburgers and frankfurters. This is not a bad thought, even if one is flowerminded, primarily.

Hicks Nurseries displayed two new varieties of yew. Old Westbury, one of those shown, is similar to Hicks vew in habit, but of a slower rate of growth, more compact and with a finer texture. Shearing is not essential to this type because it retains a tight form. The second, Meadowbrook, is also upright, but narrow, a wonderful green, with heavy needles. Meadowbrook has withstood the ravages of ice and snow for several years and never opened up, a fine recommendation for a hedge plant.

Espaliers, colorful rhododendrons, orchids, flower arrangements, and specimen lilacs in full flower augmented the attractions of this eighth annual show. Displays of garden and nursery tractors, and small equipment as well, received the inspection of many persons.

A booth was manned by competent nurserymen, who answered questions regarding the plants in the show and how and what to plant. Landscape problems were also discussed. This was an innovation, and a successful one.

To quote again from the literature of the show, "Our product, plant material, through proper application increases the value of your home, beautifies your schools, churches and local industries, protects our soil and water resources and makes our communities pleasant places in which to rear our children." The flower show constituted a living demonstration of this declaration.

A large measure of credit for the success of the exhibits was given to Peter Costich, of Hicks Nurseries, show director, and to Stephen Roberts, of Donald F. Pollitt nursery, show manager. Mrs. Peter Costich handled publicity, a valuable item in the success of this show.

Connecticut Show

A colorful pageant of gardens, the majority of which were designed to reflect the trend in outdoor living for the small suburban home, attracted a record-breaking attendance to the eighth annual Connecticut spring flower show, staged March 14 to 20 at the West Hartford armory, Hartford, Conn.

The annual event, which has been gaining more and more in popular-

ity in the New England area, was sponsored as a civic venture by the Hartford Times in cooperation with the Connecticut Nurserymen's Association, the Allied Florists' Association of Greater Hartford, the Federated Garden Clubs of Connecticut, the Hartford branch of the National Association of Gardeners and the Connecticut Horticultural Society.

Outstanding Exhibit

Winner of a gold medal certificate and trophy, an outstanding exhibit by Norman P. Gillette, West Simsbury, featured an informal shed planting and a curved gravel walk. A raised planting of daffodils and rhododendrons were on the left, overlooking an informal lawn area. Primroses, daffodils and azaleas were used in the foreground and pachysandra plants were at the base of the shed. On the right side of the garden, a large specimen of white pine was used to accent a tall hemlock. The over-all effect was one of rustic simplicity.

Patrissi Nursery Center, West Hartford, used a background of white pine for a corner of a spring garden. This award-winning garden had informal plantings of mountain laurel, rhododendrons and andromedas along an irregularly shaped lawn which was bordered with clumps of tulips and Daphne cneorum.

A raised flagstone terrace garden earned a gold medal and trophy for Scott's Nurseries, Bloomfield. Raised beds on each side of the terrace were planted in spring flowering shrubs and daffodils. A large specimen of flowering dogwood protected the left side of the terrace, which was backed by tall hemlock shrubs. A flagstone path centered the lawn and led to the terrace. A white board fence, enclosing the area, was faced by a planting of pink, white and yellow tulips.

Blacksmith's Setting

Farmington Nursery, Canton, used the facade of an old blacksmith's shed, with antique accessories, as the setting for an old-fashioned garden featuring native materials. An old gnarled apple tree, in blossom, marked the entrance of a cobblestone runway. Under the tree were lilies of the valley, violets and evergreen ground covers. A large flowering lilac bush, with a planting of myrtle at its base, was at the right of this gold medal and trophy-winning gar-

Brouwer-Hutt Nurseries, Glastonbury, were given an award for an



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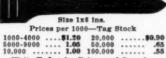
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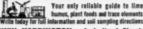
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informal terrace garden. A gravel path leading to the terrace was planted with rhododendrons, and a small slope to the left of the terrace was planted in daffodils. A rectangular lawn area in front was planted on three sides with beds of red tulips and daffodils.

Mount Phillip Nursery, Weatogue. designed a modern terrace garden of red brick, backed by corrugated glass panels, which the judges deemed worthy of a gold medal and trophy. The red brick terrace overlooked a semi-formal planting of red and white tulips, daffodils and forsythias which were backed by a white pine

Ludwig Hoffman Nursery, Bloomfield, obtained a pleasing effect with a terrace of wooden blocks surrounded by a weathered fence. This gold medal and trophy-winning garden featured a small pool at the right of an informal terraced area. The right side of the entrance was planted in rhododendrons, and the other was planted with daffodils and narcissi below a white-flowering crab apple tree. A huge flowering azalea plant backed the terrace.

Terrace Garden

Blue Hills Nurseries, Inc., Simsbury, won a gold medal and trophy for a picture window terrace garden. A gravel path at the extreme right led to a flagstone terrace beneath a picture window. The right border of the path was planted with crocuses, flowering almonds, bleeding hearts, primroses and azaleas, and there was a small magnolia tree in the foreground. A small white fence in front of the terrace, which overlooked a lawn area, served as a background for a border of daphne, and a fence at the left was the background for a planting of azaleas, rhododendrons and Japanese andromedas.

Towpath Gardens, West Hartford, reached back into the past for an ancient oriental garden, titled "The Garden of the Long Spring." Each plant and stone ornament in the garden had a specific meaning, which was described by a circular given to each spectator. A combination of materials, native to China and Japan, included tree peony, wistaria, bamboo, azalea, mandrake, quince, iris, pteris, larch and flowering cherry plants. Some of the ancient stone ornaments, depicting oriental gods, were hundreds of years old and provided the exact mood for this gold medal and trophy-winning garden.

Spaulding Gardens, Inc., Suffield, had the only formal garden in the show. Tulip beds fanned out in a

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garden statue placed beside a pool. Two white stone benches were placed on each side of the pool. The entrance to the garden was framed by two large white azaleas. The rectangular pool was fringed by plantings of white hyacinths and pink and white azaleas.

The University of Connecticut, Storrs, and the Connecticut Horticultural Society sponsored an exhibit on the proper care and planting of roses. A mimeographed sheet was available which explained the exhibit completely and detailed each step on rose care throughout the vear.

The sale of cut flowers and pot plants, carried on in a special booth manned by members of various organizations who participated in the show, continued to draw admiring throngs of eager shoppers. Proceeds from the sales of these items were earmarked for a special fund which is used to send underprivileged children to summer camp.

Cleveland Show

The 11th annual Greater Cleveland home and flower show opened at the Public auditorium, Cleveland, O., March 6, with the weather perfect. Cleveland citizens particularly welcomed the blue skies and bright sunshine, after a week of severe blizzards, and they flocked to the

radial pattern from a large white auditorium to view the springlike gardens on exhibit.

"Springtime in the Berkshires" was the theme of this year's show, which ran until March 14. The stage of the auditorium featured an old weatherworn grist mill, with its water-driven wheel turning and water flowing under a bridge into a mill race and a pond. The setting afforded an excellent opportunity for the displaying of water lilies, which graced the pond. Spring flowers dotted a simulated hillside. A blacksmith shop, under several red pine and spruce trees, was a replica of one that still exists in rural Ohio. William Schneider, Rocky River, was responsible for the setting on the stage.

Eight complete gardens shown in the main part of the large auditorium. One of these, by Sunbeam Nursery, Westlake, had a rock garden as a focal point. A primrosebordered path led to a small pool backed with mountain laurel and junipers.

A semiformal garden was dis-played by Frank Spear, of Stony Acre Gardens, Warrensville Heights. Mr. Spear used a cool-looking lily pond as a focal point. His flowers included geraniums, begonias and roses combined with a new variety of Japanese holly.

In the North hall of the auditorium, a display arranged under the supervision of Arnold M. Davis, director of the Garden Center of







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Also in the North hall of the auditorium, Ohio State University had a display arranged under the direction of Dr. L. C. Chadwick, professor of horticulture. This display featured house plants, particularly those grown under artificial lights. Visitors interested in growing African violets were offered information on how these plants can be grown under fluorescent lights.

The Businessmen's Garden Club had a 10-foot aluminum greenhouse in its display. Plants used in the landscaping around the greenhouse were donated by John Endress.

Prize-winners in the competitive gardens contest were Fred Schneider & Sons, Rocky River, whose design in the large gardens class took first prize, and Kurt O. Laubinger & Sons, Macedonia, second prize winner. C. Merkel & Sons Co., Mentor, and Stony Acre Gardens, Warrensville Heights, both received honorable mention.

First prize winner in the small gardens competition was Hirt's Greenhouses, Strongsville. R. C. Perkins & Sons, Westlake, took second place.

Early attendance figures indicated a sizable gain over the attendance at last year's show. There was a record attendance of 121,000 for the first five days. As in the past, part of the show's proceeds will be donated to a scholarship fund at Ohio State University to maintain a student studying for a master's degree in horticulture.

Dallas Garden Show

The third annual Dallas, Tex.. garden center flower show was held March 6 to 13. Dallas nurserymen contributed generously of their skill and enhanced the general appearance of the show. Their individual displays drew wide attention and contributed largely to the show's suc-

J. O. Lambert, Jr., nurseryman and architect of Lambert Landscape Co., served as consultant for the show. Lambert Landscape Co. presented a Chinese garden as its exhibit, with white tulips, geraniums, cherry blossoms and a willow tree giving the garden a delicate appearance. Huge lanterns gave the only light on the exhibit, and a real fountain bubbled up in the center and splashed away into a pool.

Nicholson's Seed Stores built a greenhouse and furnished a hobby



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room with all supplies necessary for the flower grower. Around this, a garden of tulips and azaleas was added by House's Azalea & Camellia Gardens.

Blalock Nursery created an elaborate rose garden, which made excellent use of many varieties of floribunda roses. B. B. Blalock, of this firm, is president of the Dallas Nurserymen's Association.

Ralph Pinkus, North Haven Gardens, made an educational as well as attractive rock garden. On a stand beside the garden were 1-sheet explanations, giving the name and characteristics of every plant in the exhibit. The garden attracted wide interest.

Dallas nurserymen not only displayed civic-mindedness but also their skill, new plants and methods, and many flower show visitors went home determined to have some landscaping done.

All-Jersey Flower Show

More than 100,000 persons were attracted to the L. Bamberger & Co. department store, Newark, N. J., to view the lavish displays that constituted the annual spring flower show presented by the North Jersey Metropolitan Nurserymen's Association in cooperation with the All-Jersey Florists. The show was under the direction of Julius Roehrs, Rutherford, chairman of the event.

The commercial exhibits and gardens were on the main floor and attracted the greatest amount of interest. Presentations of local garden clubs were on the upper floors and consisted primarily of cut flower arrangements.

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Tropical Bird Cage

A highlight of the show was a huge gilded bird cage of torch ginger, sprays of phalaenopsis, anthuriums, strelitzias and dozens of tropical foliage plants. Doors at each end of the huge cage permitted visitors to walk in.

Members of the North Jersey Nurserymen's Association exhibited a formal garden, rectangular in design and centered by a small pool. A low taxus hedge enclosed the garden, which had two dogwood trees facing a planting of white and pink azaleas. A large pink azalea was placed at one end of the pool, and white hyacinths supplied color accents against the dark green taxus hedge.

A formal garden, which featured a grass mall leading to a circular stone focal point, was exhibited by Blair's Nurseries, Nutley; J. H. Schmitt & Sons, Milburn; Bobbink & Atkins, Inc., East Rutherford, and Paul Hoverman Nurseries, Paramus. A raised flagstone terrace, with a large dogwood tree at the right of the entrance, had shallow steps leading to a sunken lawn area. Beds of pink tulips, edged with white hyacinths, adorned both sides of the grass panel.

Officials of the store said that the traffic lured by the flower show exceeded that of any one week during



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the Christmas shopping season, and they were so pleased with the results that plans are already under way to stage a similar show next year.

Oklahoma City Show

Nurserymen, seedsmen and landscape architects in the Oklahoma City area cooperated with the Oklahoma City Council of Garden Clubs to present the second annual spring flower show March 14, in the Mirror room of the Municipal auditorium, Oklahoma City, Okla.

Titled "A Preview of Spring," the exhibits were so constructed to achieve the effect of gardens at each season of the year and culminated in a display of gorgeous blooms simulating the effect of flowers in their natural habitat.

Long tiers of plantings were arranged by horticultural specialists down the center of the Mirror room to blend with the general layout of the show. The plantings, together with long tables of flowers and arrangements for every occasion, formed a colorful panorama.

As the exhibit was intended to be instructive as well as interesting, lectures by experts were scheduled every hour of the show. Horticulturists of Oklahoma Agricultural and Mechanical College and local nurserymen, as well as speakers from outside the state, appeared on the program. One of the most helpful events on the program was the panel of experts, comprised of Lee Carter, Carter's Flowers & Nursery; Clyde Bower, director of entomology, Oklahoma department of agriculture, and Henry Walter, of the Oklahoma City park department. This panel was moderated by Gene Fleming, Southern Nursery Co. Another panel that gave many valuable tips to homeowners was comprised of Henry Walter, Clyde Bower, Jack Cheever and Gilbert Perry. Also, Bob Shilling discussed iris in Oklahoma, and Horton Morrison gave valuable tips on growing African violets.

Commercial displays were set up around the center garden area, so that garden enthusiasts, who are increasing in numbers each year, could examine the newest in plants, insecticides, ornamental lawn furniture and mechanized equipment. Displays of soil conditioners, some of the new chemical plant foods and contact weed sprays drew long lines of interested visitors. The various displays were shows within themselves.

Approximately 100 garden clubs participated in the show. Attendance is believed to have been about the same as last year.



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